

? E AU=BERTHET, FRANCOIS-XAVIER

Ref	Items	Index-term
E1	5	AU=BERTHET, FRANCOIS-XAVIER
E2	16	*AU=BERTHET, FRANCOIS-XAVIER
E3	7	AU=BERTHET, FRANCOIS-XAVIER JACQUES
E4	2	AU=BERTHET, FRANCOIS SE
E5	5	AU=BERTHET, FRANCOIS-XAVIER
E6	2	AU=BERTHET, FREDERIC
E7	2	AU=BERTHET, FX
E8	3	AU=BERTHET, G
E9	154	AU=BERTHET, G
E10	1	AU=BERTHET, G ET AL.
E11	2	AU=BERTHET, G G
E12	2	AU=BERTHET, G G

Enter P or PAGE for more

? S E1-E12

5	AU=BERTHET, FRANCOIS-XAVIER
16	AU=BERTHET, FRANCOIS-XAVIER
7	AU=BERTHET, FRANCOIS-XAVIER JACQUES
2	AU=BERTHET, FRANCOIS SE
5	AU=BERTHET, FRANCOIS-XAVIER
2	AU=BERTHET, FREDERIC
2	AU=BERTHET, FX
3	AU=BERTHET, G
154	AU=BERTHET, G
1	AU=BERTHET, G ET AL.
2	AU=BERTHET, G G
2	AU=BERTHET, G G

S24 201 E1-E12

? S S24 AND (TRANSFERRIN OR HSF OR NEISSERIA)

201	S24
205291	TRANSFERRIN
11528	HSF
158727	NEISSERIA

S25 6 S24 AND (TRANSFERRIN OR HSF OR NEISSERIA)

? RD

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S26 5 RD (unique items)

? T S26/3, K/1-5

>>>KW C option is not available in file(s): 399

26/3, K/1 (Item 1 from file: 399)

DI ALCO (R) File 399: CA SEARCH (R)

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140198065 CA: 140(13)198065a PATENT
Vaccine compositions comprising Neisserial adhesin, autotransporter,
toxin, iron acquisition protein and membrane-associated protein against
Neisserial infection

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph;
Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Weynants,
Vincent

LOCATION: Belg.

ASSIGNEE: GlaxoSmithKline Biologicals S.A.

PATENT: PCT International ; WO 200414418 A2 DATE: 20040219

APPLICATION: WO 2003EP8571 (20030731) *GB 200218037 (20020802) *GB

10523114HSFTBP.txt

200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB
200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB
200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB
200230170 (20021224) *GB 20035028 (20030305)

PAGES: 113 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASS: FI CATI ONS:

CLASS: A61K-039/02A

DESIGNATED COUNTRY ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; NZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;
YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE
LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK;
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

26/3, K/2 (Item 2 from file: 399)

DI ALCO (R) File 399: CA SEARCH (R)

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140180125 CA: 140(12)180125k PATENT

Vaccine composition comprising transferrin binding protein and Hsf
against *Neisseria meningitidis*, *Neisseria gonorrhoeae*, *Moraxella*
cattarrhalis and *Haemophilus influenzae*

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph;
Denoel, Philippe; Feron, Christiane; Goraj, Carine; Poolman, Jan; Weynants,
Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International; WO 200414419 A1 DATE: 20040219

APPLI CATI ON: WO 2003EP8567 (20030731) *GB 200218037 (20020802) *GB

200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB
200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB
200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB
200230170 (20021224) *GB 20035028 (20030305)

PAGES: 64 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASS: FI CATI ONS:

CLASS: A61K-039/095A; A61K-039/102B; A61K-039/00B

DESIGNATED COUNTRY ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; NZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;
YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE
LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK;
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

26/3, K/3 (Item 3 from file: 399)

DI ALCO (R) File 399: CA SEARCH (R)

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137184449 CA: 137(13)184449e PATENT

Vaccine composition

INVENTOR(AUTHOR): Berthet, Francois-Xavier Jacques; Lobet, Yves; Poolman,
Jan; Verlant, Vincent Georges Christian Louis

LOCATION: Belg.

ASSIGNEE: Smithkline Beecham Biologicals S.A.

PATENT: PCT International; WO 200262380 A2 DATE: 20020815

APPLI CATI ON: WO 2002EP1356 (20020208) *GB 20013169 (20010208)

Page 2

10523114HSFTBP.txt
PAGES: 75 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/116A; A61P-031/04B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; NZ; NO; NZ; OM; PH; PL; PT; RO; RU; SD; SE;
SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZM; ZW; AM;
AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; NZ;
SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR;
IE; IT; LU; MC; NL; NL; PT; SE; TR; BF; BJ; CF; CG; CI; OM; GA; GN; GQ; GW; ML;
MR; NE; SN; TD; TG

26/3, K/4 (Item 4 from file: 399)

DI ALCO/R File 399: CA SEARCH(R)

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137184447 CA: 137(13)184447c PATENT

Vaccine composition comprising hyperblebbing Gram-neg. bacteria which have down-regulated tol genes and mutated peptidoglycan-binding proteins

INVENTOR(AUTHOR): Berthet, Francois-Xavier Jacques; Denoel, Philippe;

Neyt, Cecile Anne; Poolman, Jan; Thonnard, Joelle

LOCATION: Belg.

ASSIGNEE: Smithkline Beecham Biologicals S.A.

PATENT: PCT International; WO 200262378 A2 DATE: 20020815

APPLICATION: WO 2002EP1361 (20020208) *GB 20013171 (20010208)

PAGES: 71 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/00A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; NZ; NO; NZ; OM; PH; PL; PT; RO; RU; SD; SE;
SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZM; ZW;
AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW;
NZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; NL; PT; SE; TR; BF; BJ; CF; CG; CI; OM; GA; GN; GQ; GW; ML;
MR; NE; SN; TD; TG

26/3, K/5 (Item 5 from file: 399)

DI ALCO/R File 399: CA SEARCH(R)

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134146387 CA: 134(11)146387p PATENT

Immuno-protective and non-toxic Gram-neg. bleb vaccine suitable for pediatric use

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Dalernans, Wilfried L.
J.; Denoel, Philippe; Dequesne, Guy; Feron, Christiane; Lobet, Yves;
Poolman, Jan; Thiry, Georges; Thonnard, Joelle; Voet, Pierre

LOCATION: Belg.

ASSIGNEE: Smithkline Beecham Biologicals S.A.

PATENT: PCT International; WO 200109350 A2 DATE: 20010208

APPLICATION: WO 2000EP7424 (20000731) *GB 9918319 (19990803)

PAGES: 128 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: C12N-015/74A; A61K-039/02B; C12N-015/31B; C12N-015/67B;
A61K-039/095B; A61K-039/116B; A61K-039/118B; A61K-039/09B; A61K-039/104B;
A61K-039/102B; A61K-039/295B; C07K-014/195B; C12N-001/21B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR;
HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA;

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MD; MG; MK; MN; MW MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL;
TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW AM; AZ; BY; KG; KZ; MD;
RU; TJ; TM DESIGNATED REGIONS: GH; GM; KE; LS; MW MZ; SD; SL; SZ; TZ; UG
; ZW AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT;
SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW ML; MR; NE; SN; TD; TG
? E AU=BI EMANS, RALPH

Ref	Items	Index-term
E1	28	AU=BI EMANS, R
E2	24	*AU=BI EMANS, RALPH
E3	21	AU=BI EMANS, RALPH LEON
E4	2	AU=BI EMANS, ROGIER
E5	2	AU=BI EMANS, T.
E6	1	AU=BI EMANS, TOI NE
E7	1	AU=BI EMANS, TOI NE H.
E8	4	AU=BI EMANS, W
E9	105	AU=BI EMANS, W G
E10	2	AU=BI EMANS, W G
E11	2	AU=BI EMANS, W M
E12	1	AU=BI EMANS, W M G

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? S E1-E12 AND (HSF OR TRANSFERRIN)

28	AU=BI EMANS, R
24	AU=BI EMANS, RALPH
21	AU=BI EMANS, RALPH LEON
2	AU=BI EMANS, ROGIER
2	AU=BI EMANS, T.
1	AU=BI EMANS, TOI NE
1	AU=BI EMANS, TOI NE H.
4	AU=BI EMANS, W
105	AU=BI EMANS, W G
2	AU=BI EMANS, W G
2	AU=BI EMANS, W M
1	AU=BI EMANS, W M G
11528	HSF
205291	TRANSFERRIN

S27 4 E1-E12 AND (HSF OR TRANSFERRIN)

? RD

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S28 4 RD (unique items)

? T S28/3, K/1-4

>>>KWC option is not available in file(s): 399

28/3, K/1 (Item 1 from file: 399)

DI ALCO(R) File 399: CA SEARCH(R)

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140249770 CA: 140(16)249770m PATENT
Refolding of recombinantly produced NspA protein from *Neisseria* using the
detergent SB-12 in an alkaline refolding buffer and use of NspA in the
treatment, prevention and diagnosis of *Neisseria* infections
INVENTOR(AUTHOR): Biemans, Ralph; Bos, Martine; Denoel, Philippe; Feron,
Christiane; Goraj, Karine; Poolman, Jan; Tomassen, Jan; Weynants, Vincent
LOCATIONS: Belg.

ASSIGNEE: GlaxoSmithKline Biologicals S. A.; Utrecht University

PATENT: PCT International; WO 200420452 A2; DATE: 20040311

APPLICATI ON: WO 2003EP10085 (20030828) *GB 200220197 (20020830)

10523114HSFTBP.txt
PAGES: 62 pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: C07K-000/A

DESIGNATED COUNTRIES: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW AM, AZ, BY, KG, KZ, MD, RU DESIGNATED REGIONAL: GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

28/3, K/2 (Item 2 from file: 399)

DI ALCOG R File 399: CA SEARCH(R)

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140198065 CA: 140(13)198065a PATENT

Vaccine compositions comprising Neisserial adhesin, autotransporter, toxin, iron acquisition protein and membrane-associated protein against Neisserial infection

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Weynants, Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International; WO 200414418 A2 DATE: 20040219

APPLI CATION: WO 2003EP8571 (20030731) *GB 200218037 (20020802) *GB

200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB

200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB

200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB

200230170 (20021224) *GB 20035028 (20030305)

PAGES: 113 pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/02A

DESIGNATED COUNTRIES: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW AM, AZ, BY, KG, KZ, MD, RU DESIGNATED REGIONAL: GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

28/3, K/3 (Item 3 from file: 399)

DI ALCOG R File 399: CA SEARCH(R)

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140180125 CA: 140(12)180125k PATENT

Vaccine composition comprising transferrin binding protein and Hsf against Neisseria meningitidis, Neisseria gonorrhoeae, Moraxella catarrhalis and Haemophilus influenzae

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Weynants, Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International; WO 200414419 A1 DATE: 20040219

APPLI CATION: WO 2003EP8567 (20030731) *GB 200218037 (20020802) *GB

200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB

10523114HSFTBP.txt

200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB
200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB
200230170 (20021224) *GB 20035028 (20030305)

PAGES: 64 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSI FI CATI ONS:

CLASS: A61K-039/095A; A61K-039/102B; A61K-039/00B

DESIGNATED COUNTRY ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HP; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;
YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK;
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

28/3, K/4 (Item 4 from file: 399)

DI ALCO (R) File 399: CA SEARCH (R)

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140180124 CA: 140(12)180124] PATENT

Engineered meningococcal strains comprising LOS subunit or outer membrane vesicle with downregulated or deleted PorA, QpA and/or QpC for use as neisserial vaccines

INVENTOR/AUTHOR: Biernans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Veynants, Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals SA

PATENT: PCT International; WO 200414417 A2 DATE: 20040219

APPLICATI ON: WO 2003EP8568 (20030731) *GB 200218037 (20020802) *GB

200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB

200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB

200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB

200230170 (20021224) *GB 20035028 (20030305)

PAGES: 51 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSI FI CATI ONS:

CLASS: A61K-039/00A

DESIGNATED COUNTRY ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HP; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;
YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK;
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

? E AU=DENOC, PHI LI PPE

Ref	Items	Index-term
E1	21	AU=DENOC, PA
E2	2	AU=DENOC, PH
E3	32	*AU=DENOC, PHI LI PPE
E4	6	AU=DENOC, PHI LI PPE A
E5	11	AU=DENOC, PHI LI PPE A
E6	6	AU=DENOC, S.
E7	1	AU=DENOC, V
E8	19	AU=DENOC, V.
E9	6	AU=DENOC, VINCENT
E10	14	AU=DENOC, X.
E11	1	AU=DENOC, D
E12	3	AU=DENOC, CLAUDE

Enter P or PAGE for more

? S E1-E12

21 AU=DENOEL, PA
 2 AU=DENOEL, PH
 32 AU=DENOEL, PHILIPPE
 6 AU=DENOEL, PHILIPPE A
 11 AU=DENOEL, PHILIPPE A.
 6 AU=DENOEL, S.
 1 AU=DENOEL, V
 19 AU=DENOEL, V.
 6 AU=DENOEL, VINCENT
 14 AU=DENOEL, X.
 1 AU=DENOEL D
 3 AU=DENOS, CLAUDE

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117

E1-E12

? S S29 AND (HSF OR TRANSFERRIN)

117 S29

11528 HSF

205291 TRANSFERRIN

S30

7

S29 AND (HSF OR TRANSFERRIN)

? RD

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S31

7

RD (unique items)

? T S31/3, K/1-7

>>>KW C option is not available in file(s): 399

31/3, K/1 (Item 1 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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147484764 CA: 147(23)484764r JOURNAL

Additive and synergistic bactericidal activity of antibodies directed against minor outer membrane proteins of *Neisseria meningitidis*

AUTHOR(S): Veynants, Vincent E.; Feron, Christiane M.; Goraj, Karine K.; Bos, Martine P.; Denoel, Philippe A.; Verlant, Vincent G.; Tommassen, Jan; Peak, Ian R. A.; Judd, Ralph C.; Jennings, Michael P.; Poolman, Jan T.

LOCATION: Gaxosmithkline Biologicals, B-1330, Rixensart, Belg.

JOURNAL: Infect. Immun. (Infection and Immunity) DATE: 2007 VOLUME: 75

NUMBER: 11 PAGES: 5434-5442 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE:

English PUBLISHER: American Society for Microbiology

31/3, K/2 (Item 2 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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140249770 CA: 140(16)249770m PATENT

Refolding of recombinantly produced NspA protein from *Neisseria* using the detergent SB-12 in an alkaline refolding buffer and use of NspA in the treatment, prevention and diagnosis of *Neisseria* infections

INVENTOR(AUTHOR): Biemans, Ralph; Bos, Martine; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Tommassen, Jan; Veynants, Vincent

LOCATION: Belg.

ASSIGNEE: Gaxosmithkline Biologicals S. A.; Utrecht University

PATENT: PCT International; WO 200420452 A2 DATE: 20040311

APPLICATION: WO 2003EP10085 (20030828) *GB 200220197 (20020830)

PAGES: 62 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: C07K-000/A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LR; LS; LT; LV; MA; MD; MG; MK; MN; MW; MX; NZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; DESIGNATED REGIONAL: GH; GM; KE; LS; MW; NZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MD; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

31/3, K/3 (Item 3 from file: 399)

DI ALCO R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

140198065 CA: 140(13)198065a PATENT

Vaccine compositions comprising Neisserial adhesin, autotransporter, toxin, iron acquisition protein and membrane-associated protein against Neisserial infection

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Weynants, Vincent

LOCATI ON: Bel g.

ASSIGNEE: Gaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200414418 A2 DATE: 20040219

APPLI CATI ON: WO 2003EP8571 (20030731) *GB 200218037 (20020802) *GB

200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB

200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB

200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB

200230170 (20021224) *GB 20035028 (20030305)

PAGES: 113 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSI FICATIONS:

CLASS: A61K-039/02A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LR; LS; LT; LV; MA; MD; MG; MK; MN; MW; MX; NZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; DESIGNATED REGIONAL: GH; GM; KE; LS; MW; NZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MD; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

31/3, K/4 (Item 4 from file: 399)

DI ALCO R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

140180125 CA: 140(12)180125k PATENT

Vaccine composition comprising transferrin binding protein and Hsf against Neisseria meningitidis, Neisseria gonorrhoeae, Moraxella catarrhalis and Haemophilus influenzae

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Weynants, Vincent

LOCATI ON: Bel g.

ASSIGNEE: Gaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200414419 A1 DATE: 20040219

APPLI CATI ON: WO 2003EP8567 (20030731) *GB 200218037 (20020802) *GB

200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB

200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB

200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB

10523114HSFTBP.txt

200230170 (20021224) *GB 20035028 (20030305)

PAGES: 64 pp. CODEN: P1XXD2 LANGUAGE: English

PATENT CLASSIFICATION:

CLASS: A61K 039/095A; A61K 039/102B; A61K 039/00B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; NZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; DESIGNATED REGIONAL: GM; KE; LS; MW; NZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

31/3, K/5 (Item 5 from file: 399)

DI ALCOG R) File 399: CA SEARCH(R)

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140180124 CA: 140(12)180124] PATENT

Engineered meningococcal strains comprising LOS subunit or outer membrane vesicle with downregulated or deleted PorA, QpA and/or QpC for use as neisserial vaccines

INVENTOR(AUTHOR): Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Weynants, Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals SA

PATENT: PCT International; WO 200414417 A2 DATE: 20040219

APPLICANT: WO 2003EP8568 (20030731) *GB 200218037 (20020802) *GB

200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB

200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB

200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB

200230170 (20021224) *GB 20035028 (20030305)

PAGES: 51 pp. CODEN: P1XXD2 LANGUAGE: English

PATENT CLASSIFICATION:

CLASS: A61K 039/00A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; NZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; DESIGNATED REGIONAL: GM; KE; LS; MW; NZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

31/3, K/6 (Item 6 from file: 399)

DI ALCOG R) File 399: CA SEARCH(R)

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136166052 CA: 136(11)166052v PATENT

Vaccine composition

INVENTOR(AUTHOR): Berthet, Francois-Xavier Jacques; Dalemans, Wilfried; Denoel, Philippe; Dequesne, Guy; Feron, Christiane; Garcon, Nathalie; Lobet, Yves; Poolman, Jan; Thiry, Georges; Thonnard, Joelle; Voet, Pierre

LOCATION: Belg.

ASSIGNEE: Smithkline Beecham Biologicals S.A.

PATENT: PCT International; WO 200209746 A2 DATE: 20020207

APPLICANT: WO 2001EP8857 (20010731) *EP 2000956369 (20000731) *GB

20013170 (20010208)

PAGES: 125 pp. CODEN: P1XXD2 LANGUAGE: English

PATENT CLASSIFICATION:

CLASS: A61K-039/00A

DESIGNATED COUNTRY ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
 CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
 GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
 LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI;
 SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG;
 KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL;
 SZ; TZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC;
 NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD;
 TG

31/3, K/7 (Item 7 from file: 399)

DI ALCOG R) File 399: CA SEARCH(R)

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134146387 CA: 134(11)146387p PATENT

Immuno-protective and non-toxic Gram-neg. bleb vaccine suitable for
 pediatric use

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Dalemans, Wilfried L.
 J.; Denoel, Philippe; Dequesne, Guy; Feron, Christiane; Lobet, Yves;
 Poolman, Jan; Thiry, Georges; Thonnard, Joelle; Voet, Pierre

LOCATION: Belg.

ASSIGNEE: Smithkline Beecham Biologicals S.A.

PATENT: PCT International; WO 200109350 A2 DATE: 20010208

APPLICATION: WO 2000EP7424 (20000731) *GB 9918319 (19990803)

PAGES: 128 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: C12N-015/74A; A61K-039/02B; C12N-015/31B; C12N-015/67B;

A61K-039/095B; A61K-039/116B; A61K-039/118B; A61K-039/09B; A61K-039/104B;

A61K-039/102B; A61K-039/295B; C07K-014/195B; C12N-001/21B

DESIGNATED COUNTRY ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
 CA; CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR;
 HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA;
 MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL;
 TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD;
 RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG;
 ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT;
 SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

? E AU=FERON, CHIRSTIANE

Ref Items Index-term

E1 1 AU=FERON, C
 E2 6 AU=FERON, CHLOE
 E3 20 *AU=FERON, CHIRSTIANE
 E4 2 AU=FERON, CHIRSTIANE M
 E5 1 AU=FERON, CHIRSTIANE M
 E6 15 AU=FERON, CHIRSTOPHE
 E7 65 AU=FERON, D
 E8 408 AU=FERON, D
 E9 1 AU=FERON, D (CEA CENTRE DE LA HAGUE, 50 - CHERBO
 E10 2 AU=FERON, D HRSRG
 E11 57 AU=FERON, DAMEN
 E12 1 AU=FERON, DAMEN (ED.)

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? S E1-E12 AND (HSF OR TRANSFERRIN)

1 AU=FERON, C
 6 AU=FERON, CHLOE
 20 AU=FERON, CHIRSTIANE
 2 AU=FERON, CHIRSTIANE M
 1 AU=FERON, CHIRSTIANE M
 15 AU=FERON, CHIRSTOPHE

65 AU=FERON, D
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 2 AU=FERON, D, HRSQ
 57 AU=FERON, DAM EN
 1 AU=FERON, DAM EN (ED.)
 11528 HSF
 205291 TRANSFERRIN
 S32 9 E1-E12 AND (HSF OR TRANSFERRIN)
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>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S33 8 RD (unique items)

? T S33/3, K/1-8

>>>KWC option is not available in file(s): 399

33/3, K/1 (Item 1 from file: 399)

DI ALCO (R) File 399: CA SEARCH (R)

(c) 2010 American Chemical Society. All rts. reserv.

148099084 CA: 148(5)99084q PATENT
 Lipooligosaccharide meningococcal vaccines
 INVENTOR(AUTHOR): Devos, Nathalie; Feron, Christiane; Poolman, Jan;
 Veynants, Vincent
 LOCATION: Belg.
 ASSIGNEE: GlaxoSmithKline Biologicals SA
 PATENT: PCT International; WO 2007/144316 A2 DATE: 20071221
 APPLICATION: WO 2007EP55676 (20070608) *US 2006PV804475 (20060612) *US
 2006PV804489 (20060612)
 PAGES: 83pp. CODEN: PIXD2 LANGUAGE: English
 PATENT CLASSIFICATIONS:
 CLASS: A61K 0007 A
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BH; BR; BW
 BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI;
 GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP;
 KR; KZ; LA; LC; LI; LR; LS; LT; LU; LY; MA; MD; MG; MK; MN; MW; MX; MY; MZ;
 NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL;
 SM; SV; SY; TJ; TM; TN; TR; TT; TZ; UA DESIGNATED REGIONAL: AT; BE; BG; CH
 CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;
 MT; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW
 ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG;
 ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

33/3, K/2 (Item 2 from file: 399)

DI ALCO (R) File 399: CA SEARCH (R)

(c) 2010 American Chemical Society. All rts. reserv.

147484764 CA: 147(23)484764r JOURNAL
 Additive and synergistic bactericidal activity of antibodies directed
 against minor outer membrane proteins of *Neisseria meningitidis*
 AUTHOR(S): Veynants, Vincent E.; Feron, Christiane M.; Goraj, Karine K.;
 Bos, Martine P.; Denoel, Philippe A.; Verlant, Vincent G.; Tommassen, Jan;
 Peak, Ian R. A.; Judd, Ralph C.; Jennings, Michael P.; Poolman, Jan T.
 LOCATION: GlaxoSmithKline Biologicals, B-1330, Rixensart, Belg.
 JOURNAL: Infect. Immun. (Infection and Immunity) DATE: 2007 VOLUME: 75
 NUMBER: 11 PAGES: 5434-5442 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE:
 English PUBLISHER: American Society for Microbiology

33/3, K/3 (Item 3 from file: 399)
 DIALOG(R) File 399: CA SEARCH(R)
 (c) 2010 American Chemical Society. All rts. reserv.

140249770 CA: 140(16)249770m PATENT
 Refolding of recombinantly produced NspA protein from *Neisseria* using the detergent SB-12 in an alkaline refolding buffer and use of NspA in the treatment, prevention and diagnosis of *Neisseria* infections
 INVENTOR(AUTHOR): Biemans, Ralph; Bos, Martine; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Tomassen, Jan; Veynants, Vincent
 LOCATION: Belg.
 ASSIGNEE: Gaxosmithkline Biologicals S. A.; Utrecht University
 PATENT: PCT International; WO 200420452 A2 DATE: 20040311
 APPLICATION: WO 2003EP10085 (20030828) *GB 200220197 (20020830)
 PAGES: 62 pp. CODEN: P1XXD2 LANGUAGE: English
 PATENT CLASSIFICATIONS:
 CLASS: C07K-000/A
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

33/3, K/4 (Item 4 from file: 399)
 DIALOG(R) File 399: CA SEARCH(R)
 (c) 2010 American Chemical Society. All rts. reserv.

140198065 CA: 140(13)198065a PATENT
 Vaccine compositions comprising *Neisseria* adhesin, autotransporter, toxin, iron acquisition protein and membrane-associated protein against *Neisseria* infection
 INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Veynants, Vincent
 LOCATION: Belg.
 ASSIGNEE: Gaxosmithkline Biologicals S. A.
 PATENT: PCT International; WO 200414418 A2 DATE: 20040219
 APPLICATION: WO 2003EP8571 (20030731) *GB 200218037 (20020802) *GB 200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB 200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB 200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB 200230170 (20021224) *GB 20035028 (20030305)
 PAGES: 113 pp. CODEN: P1XXD2 LANGUAGE: English
 PATENT CLASSIFICATIONS:
 CLASS: A61K-039/02A
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

33/3, K/5 (Item 5 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

140180125 CA: 140(12)180125k PATENT
 Vaccine composition comprising transferrin binding protein and Hsf
 against *Neisseria meningitidis*, *Neisseria gonorrhoeae*, *Moraxella*
cattarrhalis and *Haemophilus influenzae*
 INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Bilemans, Ralph;
 Denoel, Philippe; Feron, Christiane; Goraj, Carine; Poolman, Jan; Veynants,
 Vincent
 LOCATION: Belg.
 ASSIGNEE: Gaxosmithkline Biologicals S.A.
 PATENT: PCT International ; WO 200414419 A1 DATE: 20040219
 APPLICATION: WO 2003EP8567 (20030731) *GB 200218037 (20020802) *GB
 200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB
 200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB
 200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB
 200230170 (20021224) *GB 20035028 (20030305)
 PAGES: 64 pp. CODEN: PIXXD2 LANGUAGE: English
 PATENT CLASSIFICATIONS:
 CLASS: A61K-039/095A; A61K-039/102B; A61K-039/00B
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
 CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
 GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
 LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;
 SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;
 YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE
 ; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;
 EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;
 BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

33/3.K/6 (Item 6 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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140180124 CA: 140(12)180124j PATENT
 Engineered meningococcal strains comprising LOS subunit or outer membrane
 vesicle with downregulated or deleted PorA, Opa and/or Opc for use as
 neisserial vaccines
 INVENTOR(AUTHOR): Bilemans, Ralph; Denoel, Philippe; Feron, Christiane;
 Goraj, Carine; Poolman, Jan; Veynants, Vincent
 LOCATION: Belg.
 ASSIGNEE: Gaxosmithkline Biologicals SA
 PATENT: PCT International ; WO 200414417 A2 DATE: 20040219
 APPLICATION: WO 2003EP8568 (20030731) *GB 200218037 (20020802) *GB
 200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB
 200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB
 200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB
 200230170 (20021224) *GB 20035028 (20030305)
 PAGES: 51 pp. CODEN: PIXXD2 LANGUAGE: English
 PATENT CLASSIFICATIONS:
 CLASS: A61K-039/00A
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
 CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
 GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
 LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;
 SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;
 YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE
 ; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;
 EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;
 BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

33/3, K/7 (Item 7 from file: 399)
 DIALOG(R) File 399: CA SEARCH(R)
 (c) 2010 American Chemical Society. All rts. reserv.

136166052 CA: 136(11)166052v PATENT
 Vaccine composition
 INVENTOR(AUTHOR): Berthet, Francois-Xavier Jacques; Dalernans, Wilfried;
 Denoel, Philippe; Dequesne, Guy; Feron, Christiane; Garcon, Nathalie;
 Lobet, Yves; Poolman, Jan; Thiry, Georges; Thonnard, Joelle; Voet, Pierre
 LOCATION: Belg.
 ASSIGNEE: Smithkline Beecham Biologicals S.A.
 PATENT: PCT International ; WO 200209746 A2 DATE: 20020207
 APPLICATION: WO 2001EP8857 (20010731) *EP 2000956369 (20000731) *GB
 20013170 (20010208)
 PAGES: 125 pp. CODEN: PIXXD2 LANGUAGE: English
 PATENT CLASSIFICATION:
 CLASS: A61K-039/00A
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
 CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
 GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; LC; LK; LR; LS; LT; LU;
 LV; MA; MD; MG; MK; MN; MW; MX; NZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI;
 SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG;
 KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ;
 TZ; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC;
 NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD;
 TG

33/3, K/8 (Item 8 from file: 399)
 DIALOG(R) File 399: CA SEARCH(R)
 (c) 2010 American Chemical Society. All rts. reserv.

134146387 CA: 134(11)146387p PATENT
 Immuno-protective and non-toxic Gram-neg. bleb vaccine suitable for
 pediatric use
 INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Dalernans, Wilfried L.
 J.; Denoel, Philippe; Dequesne, Guy; Feron, Christiane; Lobet, Yves;
 Poolman, Jan; Thiry, Georges; Thonnard, Joelle; Voet, Pierre
 LOCATION: Belg.
 ASSIGNEE: Smithkline Beecham Biologicals S.A.
 PATENT: PCT International ; WO 200109350 A2 DATE: 20010208
 APPLICATION: WO 2000EP7424 (20000731) *GB 9918319 (19990803)
 PAGES: 128 pp. CODEN: PIXXD2 LANGUAGE: English
 PATENT CLASSIFICATION:
 CLASS: C12N-015/74A; A61K-039/02B; C12N-015/31B; C12N-015/67B;
 A61K-039/095B; A61K-039/116B; A61K-039/118B; A61K-039/09B; A61K-039/104B;
 A61K-039/102B; A61K-039/295B; C07K-014/195B; C12N-001/21B
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
 CA; CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR;
 HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA;
 MD; MG; MK; MN; MW; MX; NZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL;
 TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD;
 RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG;
 ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT;
 SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG
 ? E AU=GORAJ, CARINE

Ref	Items	Index-term
E1	2	AU=GORAJ, BOGUSLAW
E2	3	AU=GORAJ, BOZENA
E3	2	*AU=GORAJ, CARINE
E4	2	AU=GORAJ, E.

E5 1 AU=GORAJ, ELW RA
 E6 1 AU=GORAJ, G Z
 E7 3 AU=GORAJ, IRENA E
 E8 3 AU=GORAJ, IRENA EVA
 E9 1 AU=GORAJ, JAN
 E10 9 AU=GORAJ, K
 E11 4 AU=GORAJ, K
 E12 1 AU=GORAJ, K K

Enter P or PAGE for more

? S E1-E12

2 AU=GORAJ, BOGUSLAW
 3 AU=GORAJ, BOZENA
 2 AU=GORAJ, CARINE
 2 AU=GORAJ, E
 1 AU=GORAJ, ELW RA
 1 AU=GORAJ, G Z
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 1 AU=GORAJ, JAN
 9 AU=GORAJ, K
 4 AU=GORAJ, K
 1 AU=GORAJ, K K

S34

32 E1-E12

? S S34 AND (HSF OR TRANSFERRIN)

32

S34

11528 HSF

205291 TRANSFERRIN

S35

1 S34 AND (HSF OR TRANSFERRIN)

? T S35/3,K/1

>>>KW C option is not available in file(s): 399

35/3,K/1 (Item 1 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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140180125 CA: 140(12)180125k PATENT

Vaccine composition comprising transferrin binding protein and Hsf against *Neisseria meningitidis*, *Neisseria gonorrhoeae*, *Moraxella catarrhalis* and *Haemophilus influenzae*

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Bilemans, Ralph;

Denoel, Philippe; Feron, Christiane; Goraj, Carine; Poolman, Jan; Weynants, Vincent

LOCATION: Belg.

ASSIGNEE: Gaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200414419 A1 DATE: 20040219

APPLICATION: WO 2003EP8567 (20030731) *GB 200218037 (20020802) *GB

200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB

200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB

200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB

200230170 (20021224) *GB 20035028 (20030305)

PAGES: 64 pp. CODEN: PXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/095A; A61K-039/102B; A61K-039/00B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

? E AU=POOLMAN, JAN

Ref	Items	Index-term
E1	1	AU=POOLMAN, J. P. J.
E2	6	AU=POOLMAN, J. T.
E3	116	AU=POOLMAN, JAN
E4	14	AU=POOLMAN, JAN T
E5	70	AU=POOLMAN, JAN T.
E6	1	AU=POOLMAN, JAN TEUNIS
E7	5	AU=POOLMAN, JAN THEUNIS
E8	1	AU=POOLMAN, JOHANNES PETRUS JACOBUS
E9	161	AU=POOLMAN, JT
E10	1	AU=POOLMAN, K. H.
E11	1	AU=POOLMAN, KENNETH
E12	1	AU=POOLMAN, LESLIE JOHN

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? S E1-E7 AND (HSF OR TRANSFERRIN OR NEISSERIA)

1	AU=POOLMAN, J. P. J.
6	AU=POOLMAN, J. T.
116	AU=POOLMAN, JAN
14	AU=POOLMAN, JAN T
70	AU=POOLMAN, JAN T.
1	AU=POOLMAN, JAN TEUNIS
5	AU=POOLMAN, JAN THEUNIS
11528	HSF
205291	TRANSFERRIN
158727	NEISSERIA

S36 104 E1-E7 AND (HSF OR TRANSFERRIN OR NEISSERIA)
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>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S37 88 RD (unique items)

? T S37/3, K/1-88

>>>KW C option is not available in file(s): 399

37/3, K/1 (Item 1 from file: 24)
DIALOG R File 24: CSA Life Sciences Abstracts
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0004246786 IP ACCESSION NO: 13315803
An Outer Membrane Receptor of *Neisseria meningitidis* Involved in Zinc Acquisition with Vaccine Potential

Stork, Michiel; Bos, Martine P; Jongerius, Ilse; de Kok, Natasja;
Schilders, Ingrid; Veynants, Vincent E; Poolman, Jan T; Tommassen,
Jan
Department of Molecular Microbiology, Utrecht University, Utrecht, The Netherlands

PLoS Pathogens, v 6, n 7, p [np], July 1, 2010
PUBLICATION DATE: 2010

PUBLISHER: Public Library of Science, 185 Berry Street San Francisco CA 94107 United States of America

DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 1553-7366

ELECTRONIC ISSN: 1553-7374

FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Immunology Abstracts

An Outer Membrane Receptor of *Neisseria meningitidis* Involved in Zinc Acquisition with Vaccine Potential

Stork, Michiel; Bos, Martine P; Jongerius, Ilse; de Kok, Natasja; Schilders, Ingrid; Veynants, Vincent E; Poolman, Jan T; Tommassen, Jan

ABSTRACT:

... of identifying novel vaccine candidates, we characterized in this study a hitherto unknown receptor in *Neisseria meningitidis*. We demonstrate that this receptor, designated ZnuD, is produced under zinc limitation and that...

...In a search for putative vaccine components, we have characterized here a new receptor of *Neisseria meningitidis*, a resident of the nasopharynx that occasionally causes sepsis and meningitis. We show that...

... DESCRIPTORS: membranes; Pathogens; Respiratory tract; Sepsis; Survival; Vaccines; Zinc; meningococcal disease; pore-forming proteins; virulence factors; *Neisseria meningitidis*

37/3, K/2 (Item 2 from file: 24)

DIALOG(R) File 24: CSA Life Sciences Abstracts

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0003599239

IP ACCESSION NO: 8811906

Immunogenicity, reactogenicity and persistence of meningococcal A, C, W 135 and Y-tetanus toxoid candidate conjugate (MenACWY-TT) vaccine formulations in adolescents aged 15-25 years

Oestergaard, Lars; Lebacqz, Edouard; Poolman, Jan; Mæchler, Gudrun; BOUTRIAU, Dominique
Department of Infectious Diseases, Aarhus University Hospital, Denmark,
[mailto:Dominique.Boutriau@skbio.com]

Vaccine, v 27, n 1, p 161-168, January 2009

PUBLICATION DATE: 2009

PUBLISHER: Elsevier Science, The Boulevard Langford Lane Kidlington Oxford OX5 1GB UK, [mailto:usinfo-f@elsevier.com], [URL: http://www.elsevier.nl]

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 0264-410X

ELECTRONIC ISSN: 1873-2518

FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Immunology Abstracts

Oestergaard, Lars; Lebacqz, Edouard; Poolman, Jan; Mæchler, Gudrun; BOUTRIAU, Dominique

DESCRIPTORS: Adolescence; Antibodies; Immunogenicity; Polysaccharides; Toxoids; Vaccines; meningococcal disease; *Neisseria meningitidis*

37/3, K/3 (Item 3 from file: 24)
DI ALCO (R) File 24: CSA Life Sciences Abstracts
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0003160890 I.P. ACCESSION NO: 7931981
Additive and Synergistic Bactericidal Activity of Antibodies Directed
against Minor Outer Membrane Proteins of *Neisseria meningitidis*

Weynants, Vincent E; Feron, Christiane M; Goraj, Karine K; Bos, Martine
P; Denoel, Philippe A; Verlant, Vincent G; Tommassen, Jan; Peak, Ian RA;
Judd, Ralph C; Jennings, Michael P; Poolman, Jan T
GlaxoSmithKline Biologicals, B-1330 Rixensart, Belgium Department of
Molecular Microbiology, Utrecht University, 3584-CR Utrecht, The
Netherlands. Institute for Glycomics, Griffith University, Southport QLD
4215, Australia. Division of Biological Sciences, University of Montana,
Missoula, Montana 59812. School of Molecular & Microbial Sciences,
University of Queensland, Brisbane QLD 4072, Australia

Infection and Immunity, v 75, n 11, p 5434-5442, November 2007
PUBLICATION DATE: 2007

PUBLISHER: American Society for Microbiology, 1752 N Street N.W.
Washington, DC 20036 USA, [URL: <http://www.asm.org/>]

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 0019-9567

ELECTRONIC ISSN: 1098-5522

FILE SEGMENT: Immunology Abstracts; Bacteriology Abstracts (Microbiology B)

Additive and Synergistic Bactericidal Activity of Antibodies Directed
against Minor Outer Membrane Proteins of *Neisseria meningitidis*

...A; Verlant, Vincent G; Tommassen, Jan; Peak, Ian RA; Judd, Ralph C;
Jennings, Michael P; Poolman, Jan T

ABSTRACT:

Neisseria meningitidis serogroup B is a major cause of bacterial
meningitis in younger populations. The available...

...DESCRIPTORS: Antibodies; Bactericidal activity; Children; Complement;
Cross-protection; Membrane vesicles; Meningitis; Mimicry; Vaccines;
outer membrane proteins; *Neisseria meningitidis*

37/3, K/4 (Item 4 from file: 24)
DI ALCO (R) File 24: CSA Life Sciences Abstracts
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0003148817 I.P. ACCESSION NO: 7930386
Comparison of Phenotypically Indistinguishable but Geographically Distinct
Neisseria meningitidis Group B Isolates in a Serum Bactericidal
Antibody Assay

Findlow, Jamie; Holland, Ann; Andrews, Nick; Weynants, Vincent;
Sotolongo, Franklin; Balmer, Paul; Poolman, Jan; Borrow, Ray
Vaccine Evaluation Unit, Health Protection Agency North West, Manchester
Laboratory, Manchester Medical Microbiology Partnership, P.O. Box 209, 2nd
Floor, Clinical Sciences Building II, Manchester Royal Infirmary,

10523114HSFTBP.txt

Manchester, M13 9WZ. Health Protection Agency, Centre for Infections,
Colindale, London, NW9 5EQ, United Kingdom. G. A. Smith Kline Biologicals,
Rixensart, Belgium. Filnlay Institute, Ave 27N. 19085, La Lisa A P 160017,
Cod 11600, Havana, Cuba

Clinical and Vaccine Immunology, v 14, n 11, p 1451-1457, November 2007
PUBLICATION DATE: 2007

PUBLISHER: American Society for Microbiology, 1752 N Street N.W.
Washington, DC 20036 USA, [URL: <http://www.asm.org/>]

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 1556-6811

ELECTRONIC ISSN: 1556-679X

FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Immunology Abstracts

Comparison of Phenotypically Indistinguishable but Geographically Distinct
Neisseria meningitidis Group B Isolates in a Serum Bactericidal
Antibody Assay

Findlow, Jamie; Holland, Ann; Andrews, Nick; Weynants, Vincent;
Sotolongo, Franklin; Balmer, Paul; Poolman, Jan; Borrow, Ray

ABSTRACT:

The "gold standard" assay for measuring serologic protection against
Neisseria meningitidis group B (MenB) is the serum bactericidal
antibody (SBA) assay. Of vital importance to...

DESCRIPTORS: Antibodies; Capsular polysaccharides; Genotypes;
Lipooligosaccharides; Membrane vesicles; Outer membranes;
Standardization; Vaccines; Neisseria meningitidis

37/3,K/5 (Item 5 from file: 24)
DIALOG File 24: CSA Life Sciences Abstracts
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0002964326 IP ACCESSION NO: 7175484
Shielding of immunogenic domains in Neisseria meningitidis FrpB
(FetA) by the major variable region

Kortekaas, Jeroen; Pettersson, Annika; Van der Biezen, Jenny; Weynants,
Vincent E; Van der Ley, Peter; Poolman, Jan; Bos, Martine P;
Tomassen, Jan
Department of Molecular Microbiology and Institute of Biomembranes, Utrecht
University, Padualaan, 3584 CH Utrecht, The Netherlands,
[mailto:m.p.bos@io.uu.nl]

Vaccine, v 25, n 1, p 72-84, January 2007
PUBLICATION DATE: 2007

PUBLISHER: Elsevier Science Ltd., The Boulevard Langford Lane Kidlington
Oxford OX5 1GB UK, [mailto:userinfo@elsevier.com],
[URL: <http://www.elsevier.nl>]

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 0264-410X

10523114HSFTBP.txt

FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Immunology Abstracts

Shielding of immunogenic domains in *Neisseria meningitidis* FrpB (FetA) by the major variable region

Kortekaas, Jeroen; Pettersson, Annika; Van der Bijzen, Jenny; Weynants, Vincent E; Van der Ley, Peter; Poolman, Jan; Bos, Martine P; Tommassen, Jan

... DESCRIPTORS: sequence; Epitope mapping; Immune response; Immunity; Immunization; Immunofluorescence; Microscopy; Vaccines; Variable region; outer membrane proteins; *Neisseria meningitidis*

37/3, K/6 (Item 6 from file: 24)

DIALOG(R) File 24: CSA Life Sciences Abstracts

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0002816358 I.P. ACCESSION NO: 6737828

Vaccine potential of the *Neisseria meningitidis* lactoferrin-binding proteins LbpA and LbpB

Pettersson, Annika; Kortekaas, Jeroen; Weynants, Vincent E; Voet, Pierre; Poolman, Jan T; Bos, Martine P; Tommassen, Jan
Department of Molecular Microbiology, Institute of Biomembranes, Utrecht University, Padualaan 8, 3584 CH Utrecht, The Netherlands,
[mailto:m.p.bos@i.o.uu.nl]

Vaccine, v 24, n 17, p 3545-3557, 2006

PUBLICATION DATE: 2006

PUBLISHER: Butterworth-Heinemann, 313 Washington St. Newton MA 02158 USA

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 0264-410X

FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Immunology Abstracts

Vaccine potential of the *Neisseria meningitidis* lactoferrin-binding proteins LbpA and LbpB

Pettersson, Annika; Kortekaas, Jeroen; Weynants, Vincent E; Voet, Pierre; Poolman, Jan T; Bos, Martine P; Tommassen, Jan

ABSTRACT:

The vaccine potential of the *Neisseria meningitidis* lactoferrin-binding proteins LbpA and LbpB was evaluated. Sequencing and sequence alignments suggested that...

... DESCRIPTORS: Outer membranes; Antisera; LbpA protein; Nucleotide sequence; Monoclonal antibodies; Bactericidal activity; Western blotting; LbpB protein; *Neisseria meningitidis*; *Escherichia coli*

37/3, K/7 (Item 1 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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152343487 CA: 152(15)343487u PATENT

Outer membrane vesicle (OMV) vaccine comprising protein NMB0964 from

Page 20

Neisseria meningitidis

INVENTOR(AUTHOR): Bos, Martine Petronella; Poolman, Jan; Stork, Michiel;
Tomassen, Johannes Petrus Maria; Veynants, Vincent

LOCATI ON: Belg.

ASSIGNEE: GlaxoSmithKline Biologicals S.A.; Utrecht University

PATENT: PCT International ; WO 201025964 A1 DATE: 20100311

APPLICATI ON: WO 2009EP52689 (20090306) *GB 200816447 (20080908)

PAGES: 43pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFI CATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K 0039/095

A I F B

20060101

H EP

C07K 0014/22

A I L B

20060101

H EP

DESIGNATED COUNTRIES:

AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR;
BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES;
FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;
KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX;
MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG;
SK; SL; SM; ST; SV; SY; TJ; TM; TN; TR DESIGNATED REGIONAL: AT; BE; BG; CH;
CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV;
MC; MK; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA;
GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;
SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

37/3, K/8 (Item 2 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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150534080 CA: 150(25)534080z JOURNAL

Genetically modified L3,7 and L2 lipooligosaccharides from *Neisseria meningitidis* serogroup B confer a broad cross-bactericidal response

AUTHOR(S): Veynants, V.; Denoel, P.; Devos, N.; Janssens, D.; Feron, C.;
Goraj, K.; Morin, P.; Monnom, D.; Tans, C.; Vandercammen, A.; Wauters, F.;
Poolman, Jan T.

LOCATI ON: GlaxoSmithKline Biologicals, B 1330, Rixensart, Belg.

JOURNAL: Infect. Immun. (Infection and Immunity) DATE: 2009 VOLUME: 77

NUMBER: 5 PAGES: 2084-2093 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE:

English PUBLISHER: American Society for Microbiology

37/3, K/9 (Item 3 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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150209307 CA: 150(11)209307r PATENT

Typing of *Neisseria* by genotyping genes of lipooligosaccharide biosynthesis

INVENTOR(AUTHOR): Devos, Nathalie Isabelle; Di Paolo, Emmanuel Enrico
Alexandre; Feron, Christiane; Poolman, Jan

LOCATI ON: Belg.

ASSIGNEE: GlaxoSmithKline Biologicals S.A.

PATENT: PCT International ; WO 200916237 A2 DATE: 20090205

APPLICATI ON: WO 2008EP60077 (20080731) *US 2007PV953551 (20070802)

PAGES: 63pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFI CATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

C12Q 0001/68

A I F B

20060101

H EP

DESIGNATED COUNTRIES:

AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR;
BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES;
FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;
KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX;
MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG;
SK; SL; SM; ST; SV; SY; TJ; TM; TN; TR DESIGNATED REGIONAL: AT; BE; BG; CH

10523114HSFTBP.txt

: CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV;
MC; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN;
GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ;
TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

37/3, K/10 (Item 4 from file: 399)

DI ALCOG R) File 399: CA SEARCH(R)

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149553936 CA: 149(25)553936d PATENT

Carrier protein effects on immune response to combination vaccines

INVENTOR(AUTHOR): Poolman, Jan

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S. A.

PATENT: PCT International ; WO 2008135514 A1 DATE: 20081113

APPLICATION: WO 2008EP55383 (20080430) *GB 20078522 (20070502) *GB

200712658 (20070628) *GB 20082108 (20080205)

PAGES: 134pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K-0039/116 A I F B 20060101 H EP

A61P-0031/04 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR;
BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES;
FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;
KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX;
MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG;
SK; SL; SM; SV; SY; TJ; TN; TR; TT DESIGNATED REGIONAL: AT; BE; BG; CH

: CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV;
MC; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN;
GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ;
TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

37/3, K/11 (Item 5 from file: 399)

DI ALCOG R) File 399: CA SEARCH(R)

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149353141 CA: 149(16)353141d JOURNAL

Combination vaccines containing DTPa-Hib: impact of IPV and

coadministration of CRM197 conjugates

AUTHOR(S): Dagan, Ron; Poolman, Jan T.; Zepp, Fred

LOCATION: Pediatric Infectious Disease Unit, Soroka University Medical
Center, 84101, Beer Sheva, Israel

JOURNAL: Expert Rev. Vaccines (Expert Review of Vaccines) DATE: 2008

VOLUME: 7 NUMBER: 1 PAGES: 97-115 CODEN: ERVXAX ISSN: 1476-0584

LANGUAGE: English PUBLISHER: Future Drugs Ltd.

37/3, K/12 (Item 6 from file: 399)

DI ALCOG R) File 399: CA SEARCH(R)

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149007218 CA: 149(1)7218f JOURNAL

A novel combined Haemophilus influenzae type b-Neisseria meningitidis
serogroups C and Y-tetanus-toxoid conjugate vaccine is immunogenic and
induces immune memory when co-administered with DTPa-HBV-IPV and
conjugate pneumococcal vaccines in infants

AUTHOR(S): Nolan, Terry; Lambert, Stephen; Robertson, Don; Marshall, Helen
; Richmond, Peter; Streeton, Catherine; Poolman, Jan; Bouriiau, Dominique

LOCATION: Murdoch Children's Research Institute and School of Population
Health, The University of Melbourne, Australia

10523114HSFTBP.txt
 JOURNAL: Vaccine (Vaccine) DATE: 2007 VOLUME: 25 NUMBER: 51 PAGES:
 8487-8499 CODEN: VACODE ISSN: 0264-410X PUBLISHER: Elsevier Ltd.
 0264-410X(07)01155-3 LANGUAGE: English PUBLISHER: Elsevier Ltd.

37/3, K/13 (Item 7 from file: 399)
 DI ALCQ (R) File 399: CA SEARCH (R)
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148099084 CA: 148(5)99084q PATENT
 Lipooligosaccharide meningococcal vaccines
 INVENTOR(AUTHOR): Devos, Nathalie; Feron, Christiane; Poolman, Jan;
 Veynants, Vincent
 LOCATIONS: Belg.
 ASSIGNEE: GlaxoSmithKline Biologicals SA
 PATENT: PCT International; WO 2007144316 A2 DATE: 20071221
 APPLICATION: WO 2007EP55676 (20070608) *US 2006PV804475 (20060612) *US
 2006PV804489 (20060612)
 PAGES: 83pp. CODEN: PIXXD2 LANGUAGE: English
 PATENT CLASSIFICATION:
 CLASS: A61K-000/A
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BH; BR; BW
 BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI;
 GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP;
 KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; MG; MK; MN; MW; MX; MY; NZ;
 NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL;
 SM; SV; SY; TJ; TM; TN; TR; TT; TZ; UA DESIGNATED REGIONAL: AT; BE; BG; CH;
 CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;
 MT; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
 ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG;
 ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

37/3, K/14 (Item 8 from file: 399)
 DI ALCQ (R) File 399: CA SEARCH (R)
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147116454 CA: 147(6)116454j PATENT
 Vaccines against Neisseria meningitidis and Streptococcus pneumoniae
 based on conjugated capsular polysaccharides from multiple meningococcal
 and/or pneumococcal serogroups
 INVENTOR(AUTHOR): Poolman, Jan
 LOCATIONS: Belg.
 ASSIGNEE: GlaxoSmithKline Biologicals S. A.
 PATENT: PCT International; WO 200771786 A2 DATE: 20070628
 APPLICATION: WO 2006EP70173 (20061222) *GB 200526412 (20051223) *GB
 20067088 (20060407)
 PAGES: 53pp. CODEN: PIXXD2 LANGUAGE: English
 PATENT CLASSIFICATION:
 IPC/8 + Level Value Position Status Version Action Source Office:
 A61K-0039/095 A I F B 20060101 H EP
 A61K-0039/09 A I L B 20060101 H EP
 A61K-0039/116 A I L B 20060101 H EP
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;
 BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;
 GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ;
 LA; LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MY; MZ; NA;
 NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM;
 SV; SY; TJ; TM; TN; TR; TT; TZ; UA; UG DESIGNATED REGIONAL: AT; BE; BG; CH;
 CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;
 NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML;
 MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;
 ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

37/3, K/15 (Item 9 from file: 399)
 DIALOG(R) File 399: CA SEARCH(R)
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146315013 CA: 146(16)315013u PATENT
 Serum bactericidal assay for *Neisseria meningitidis*-specific antibodies
 INVENTOR(AUTHOR): De Vrieschauer, Isabel; Durant, Nathalie; Poolman, Jan
 ; Veynants, Vincent
 LOCATION: Belg.
 ASSIGNEE: Gaxosmithkline Biologicals S.A.
 PATENT: PCT International ; WO 200728408 A1 DATE: 20070315
 APPLICATION: WO 2005EP9566 (20050905)
 PAGES: 52pp. CODEN: PIXXD2 LANGUAGE: English
 PATENT CLASSIFICATIONS:
 IPC/8 + Level Value Position Status Version Action Source Office:
 G01N 0033/569 A I F B 20060101 H EP
 C12N 0001/22 A I L B 20060101 H EP
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;
 BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;
 GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KP; KR; KZ; LC; LK; LR;
 LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; ME; NA; NG; NI; NO; NZ; OM; PG;
 PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR; TT; TZ;
 UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW DESIGNATED REGIONAL: AT; BE; BG; CH;
 ; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;
 NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; OM; GA; GN; GQ; GW; ML;
 MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;
 ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

37/3, K/16 (Item 10 from file: 399)
 DIALOG(R) File 399: CA SEARCH(R)
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146161138 CA: 146(9)161138z JOURNAL
 Immunogenicity and safety of three doses of a bivalent (B:4:P1.19,15 and
 B:4:P1.7-2,4) meningococcal outer membrane vesicle vaccine in healthy
 adolescents
 AUTHOR(S): BOUTRIAU, Dominique; Poolman, Jan; Borrow, Ray; Findlow, Jamie
 ; Domingo, Javier Diez; Puig-Barbera, Joan; Baldo, Jose Maria; Planelles,
 Victoria; Jubert, Angels; Colomer, Julia; Gil, Angel; Levie, Karin; Kervyn,
 Anne-Diane; Veynants, Vincent; Dominguez, Francisco; Barbera, Farron;
 Sotolongo, Franklin
 LOCATION: Gaxosmithkline Biologicals, Rixensart, Belg.
 JOURNAL: Clin. Vaccine Immunol. (Clinical and Vaccine Immunology) DATE:
 2007 VOLUME: 14 NUMBER: 1 PAGES: 65-73 CODEN: CVILA6 ISSN: 1556-6811
 LANGUAGE: English PUBLISHER: American Society for Microbiology

37/3, K/17 (Item 11 from file: 399)
 DIALOG(R) File 399: CA SEARCH(R)
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146099125 CA: 146(6)99125n PATENT
 Combination vaccine comprising a *Haemophilus influenzae* type b saccharide
 conjugate and adnol. bacterial saccharide conjugates
 INVENTOR(AUTHOR): Biemans, Ralph Elmar; BOUTRIAU, Dominique; Capi au,
 Carine; Denoel, Philippe; Duvivier, Pierre; Poolman, Jan
 LOCATION: Belg.
 ASSIGNEE: Gaxosmithkline Biologicals S.A.
 PATENT: PCT International ; WO 200700322 A1 DATE: 20070104
 APPLICATION: WO 2006EP6210 (20060623) *GB 200513069 (20050627) *GB
 Page 24

10523114HSFTBP.txt

200513071 (20050627) *GB 200515556 (20050728) *GB 200524204 (20051128) *GB
200526040 (20051221) *GB 200526041 (20051221)

PAGES: 52pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATION:

IPC/8 + Level	Value	Position	Status	Version	Action	Source	Office:
A61K-0039/095	A I F B	20060101				H	EP
A61K-0039/102	A I L B	20060101				H	EP
A61K-0039/116	A I L B	20060101				H	EP

DESIGNATED COUNTRIES: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, DESI GNATED REG ONAL: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

37/3, K/18 (Item 12 fromfile: 399)

DI ALCO (R) File 399: CA SEARCH (R)

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146099123 CA: 146(6)99123k PATENT
Immunogenic composition containing Neisseria meningitidis capsular
saccharides

INVENTOR(AUTHOR): Biernans, Ralph Leon; Boutriau, Dominique; Capi au,
Carine; Denoel, Philippe; Duvivier, Pierre; Poolman, Jan

LOCATION: Belg.

ASSIGNEE: Gaxosmithkline Biologicals S.A.

PATENT: PCT International; WO 200700341 A2, DATE: 20070104

APPLICATON: WO 2006EP6268 (20060623) *GB 200513069 (20050627) *GB

200513071 (20050627) *GB 200515556 (20050728) *GB 200524204 (20051128) *GB
200526041 (20051221) *GB 200526040 (20051221)

PAGES: 66pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATION:

IPC/8 + Level	Value	Position	Status	Version	Action	Source	Office:
A61K-0039/095	A I F B	20060101				H	EP
A61K-0039/102	A I L B	20060101				H	EP
A61K-0039/116	A I L B	20060101				H	EP

DESIGNATED COUNTRIES: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, DESI GNATED REG ONAL: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

37/3, K/19 (Item 13 fromfile: 399)

DI ALCO (R) File 399: CA SEARCH (R)

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146099122 CA: 146(6)99122j PATENT
Neisseria meningitidis capsular polysaccharide vaccine conjugate

INVENTOR(AUTHOR): Biernans, Ralph Leon; Boutriau, Dominique; Capi au,
Carine; Denoel, Philippe; Duvivier, Pierre; Poolman, Jan

LOCATION: Belg.

ASSIGNEE: Gaxosmithkline Biologicals S.A.

10523114HSFTBP.txt

PATENT: PCT International ; WO 200700314 A2 DATE: 20070104

APPLI CATI ON: WO 2006EP6188 (20060623) *GB 200513071 (20050627) *GB
200513069 (20050627) *GB 200515556 (20050728) *GB 200524204 (20051128) *GB
200526040 (20051221) *GB 200526041 (20051221)

PAGES: 46pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSI FI CATI ONS:

IPC/ 8 + Level	Value	Position	Status	Version	Action	Source	Office:
A61K 0039/ 095	A I F B	20060101			H	EP	
A61K 0039/ 102	A I L B	20060101			H	EP	
A61K 0039/ 116	A I L B	20060101			H	EP	
A61P 0031/ 04	A I L B	20060101			H	EP	

DESI GNATED COUNTRI ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;
BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;
GE; GH; GM; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA;
LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI;
NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ;
TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC DESI GNATED REGI ONAL: AT; BE; BG; CH
; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;
NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; OM; GA; GN; GQ; GW; ML;
MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;
ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

37/ 3, K/ 20 (Item 14 fromfile: 399)

DI ALCOG R) File 399: CA SEARCH(R)

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146099120 CA: 146(6)99120g PATENT

Immunogenic composition containing Neisseria meningitidis capsular polysaccharides

INVENTOR(AUTHOR): Biernans, Ralph Leon; Boutiriau, Dominique; Capi au, Carine; Denoel, Philippe; Duvi vier, Pierre; Pool man, Jan
LOCATI ON: Belg.

ASSI GNEE: G axosmithkline Biological s S.A.

PATENT: PCT International ; WO 200700342 A2 DATE: 20070104

APPLI CATI ON: WO 2006EP6269 (20060623) *GB 200513069 (20050627) *GB
200513071 (20050627) *GB 200515556 (20050728) *GB 200524204 (20051128) *GB
200526040 (20051221) *GB 200526041 (20051221)

PAGES: 64pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSI FI CATI ONS:

IPC/ 8 + Level	Value	Position	Status	Version	Action	Source	Office:
A61K 0039/ 095	A I F B	20060101			H	EP	
A61K 0039/ 102	A I L B	20060101			H	EP	
A61K 0039/ 116	A I L B	20060101			H	EP	
A61P 0031/ 04	A I L B	20060101			H	EP	

DESI GNATED COUNTRI ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;
BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;
GE; GH; GM; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA;
LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI;
NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ;
TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC DESI GNATED REGI ONAL: AT; BE; BG; CH
; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;
NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; OM; GA; GN; GQ; GW; ML;
MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;
ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

37/ 3, K/ 21 (Item 15 fromfile: 399)

DI ALCOG R) File 399: CA SEARCH(R)

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146099118 CA: 146(6)99118n PATENT

Combination vaccines comprising Haemophilus influenzae type b saccharide

10523114HSFTBP.txt
 conjugate, an addnl. bacterial saccharide conjugate, and further antigens
 INVENTOR(AUTHOR): Biernans, Ralph Leon; Boutriau, Dominique; Capi au,
 Carine; Denoel, Philippe; Duvi vier, Pierre; Poolman, Jan
 LCCATI ON: Belg.
 ASSIGNEE: Gaxosmithkline Biological s S.A.
 PATENT: PCT International ; WO 200700327 A1 DATE: 20070104
 APPLI CATI ON: WO 2006EP6220 (20060623) *GB 200513069 (20050627) *GB
 200513071 (20050627) *GB 200515556 (20050728) *GB 200524204 (20051128) *GB
 200526041 (20051221) *GB 200526040 (20051221)
 PAGES: 49pp. CODEN: PI XX02 LANGUAGE: English
 PATENT CLASSI FI CATI ONS:

IPC/8 + Level	Value	Position	Status	Version	Action	Source	Office:
A61K-0039/095	A I F B	20060101			H	EP	
A61K-0039/102	A I L B	20060101			H	EP	
A61K-0039/116	A I L B	20060101			H	EP	

DESI GNATED COUNTRI ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;
 BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;
 GE; GH; GM; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA;
 LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI;
 NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ;
 TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC DESI GNATED REGI ONS: AT; BE; BG; CH;
 ; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;
 NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; OM; GA; GN; GQ; GW; ML;
 MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;
 ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

37/3, K/22 (Item 16 fromfile: 399)
 DI ALCO (R) File 399: CA SEARCH (R)
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145417014 CA: 145(21)417014s PATENT
 Menngococcal class 1 outer-membrane protein vaccine
 INVENTOR(AUTHOR): Seid, Jr., Robert C.; Paradiso, Peter R.; Poolman, Jan
 T.; Hoogerhout, Peter; Wertz, Emmanuel J. H. J.; Van Der Ley, Peter;
 Heckel s, John Edward; Clarke, Ian Nicholas
 LCCATI ON: USA
 ASSIGNEE: Wyeth Holdings Corporation; De Staat der Nederlanden
 Vertegenwoordigd Door De Minister Van Welzijn, Volksgezondheid En Cultuur
 PATENT: United States ; US 7118757 B1 DATE: 20061010
 APPLI CATI ON: US 204808 (19940215) *NL 883111 (19881219) *NL 8936
 (1989106) *NL 891612 (19890626) *US 691005 (19891219) *WO 89US5678
 (19891219)
 PAGES: 88pp., Cont. of U.S. Ser. No. 691,005. CODEN: USXXAM LANGUAGE:
 English

PATENT CLASSI FI CATI ONS:
 CLASS: 424250100

IPC/8 + Level	Value	Position	Status	Version	Action	Source	Office:
A61K-0039/095	A I F B	20060101			20061010	H	US
A61K-0039/02	A I L B	20060101			20061010	H	US
A61K-0039/385	A I L B	20060101			20061010	H	US
A61K-0039/38	A I L B	20060101			20061010	H	US
C07K-0001/00	A I L B	20060101			20061010	H	US

37/3, K/23 (Item 17 fromfile: 399)
 DI ALCO (R) File 399: CA SEARCH (R)
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143131822 CA: 143(8)131822p PATENT
 A gram-negative bacterium with disruption of lipopolysaccharide (LPS)
 transport to the outer membrane and use thereof as a vaccine
 INVENTOR(AUTHOR): Bos, Martine Petronella; Poolman, Jan; Tefsen, Boris;
 Page 27

Tomassen, Johannes Petrus Maria

LOCATI ON: Belg.

ASSIGNEE: Gaxosmithkline Biologicals S.A.; Utrecht University

PATENT: PCT International ; WO 200564021 A2 DATE: 20050714

APPLICATI ON: WO 2004EP14770 (20041221) *GB 200329827 (20031223) *GB
200416398 (20040722)

PAGES: 96 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFI CATI ONS:

CLASS: C12R-001/36A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;
 BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;
 GE; GH; GM; GR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS;
 LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;
 PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US;
 UZ; VC; VN; YU; ZA; ZM; ZW DESIGNATED REGIONAL: BW; GH; GM; KE; LS; MW; MZ;
 NA; SD; SL; SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT;
 BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;
 MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
 ML; MR; NE; SN; TD; TG

37/3, K/24 (Item 18 fromfile: 399)

DIALCOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

142387960 CA: 142(21)387960r PATENT

Protein and nucleotide sequences of Bordetella protein BASB232 and its
therapeutic use

INVENTOR(AUTHOR): Castado, G ndy; Denoel, Philippe; Godfroid, Fabrice;

Poolman, Jan

LOCATI ON: Belg.

ASSIGNEE: Gaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200532584 A2 DATE: 20050414

APPLICATI ON: WO 2004EP11082 (20041001) *GB 200323113 (20031002) *GB
200323112 (20031002)

PAGES: 172 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFI CATI ONS:

CLASS: A61K-039/10A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;
 BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;
 GE; GH; GM; GR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS;
 LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;
 PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US;
 UZ; VC; VN; YU; ZA; ZM; ZW DESIGNATED REGIONAL: BW; GH; GM; KE; LS; MW; MZ;
 NA; SD; SL; SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT;
 BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LT; LU;
 MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR;
 NE; SN; TD; TG

37/3, K/25 (Item 19 fromfile: 399)

DIALCOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

140259048 CA: 140(16)259048w PATENT

Neisseria outer membrane FrpB proteins containing loop-deletions for
improved refolding and vaccine use

INVENTOR(AUTHOR): Biemans, Ralph; Denoel, Philippe; Feron, Christiane;

Goraj, Karine; Kortekaas, Jeroen; Poolman, Jan; Tomassen, Jan; Veynants,
Vincent

LOCATI ON: Belg.

ASSIGNEE: Gaxosmithkline Biologicals S.A.; Utrecht University;
Technology Foundation (Stichting Voor de Technische Wetenschappen)

10523114HSFTBP.txt
 PATENT: PCT International ; WO 200420463 A2 DATE: 20040311
 APPLI CATI ON: WO 2003EP9634 (20030828) *GB 200220199 (20020830)
 PAGES: 104 pp. CODEN: PI XXD2 LANGUAGE: English
 PATENT CLASSI FI CATI ONS:
 CLASS: C07K-014/00A
 DESI GNATED COUNTRI ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
 CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
 GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
 LV; MA; MD; MG; MK; MN; MW; MX; NZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;
 SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;
 YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU DESI GNATED REGI ONAL: GH; GM; KE
 ; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK;
 EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MD; NL; PT; RO; SE; SI; SK; TR; BF;
 BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

37/3, K/26 (Item 20 from file: 399)
 DI ALCQ(R) File 399: CA SEARCH(R)
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140249770 CA: 140(16)249770m PATENT
 Refolding of recombinantly produced NspA protein from Neisseria using the
 detergent SB-12 in an alkaline refolding buffer and use of NspA in the
 treatment, prevention and diagnosis of Neisserial infections
 INVENTOR(AUTHOR): Biernans, Ralph; Bos, Martine; Denoel, Philippe; Feron,
 Christiane; Goraj, Karine; Poolman, Jan; Tommassen, Jan; Weynants, Vincent
 LOCATI ON: Belg.
 ASSI GNEE: Gaxosmithkline Biologicals S. A.; Utrecht University
 PATENT: PCT International ; WO 200420452 A2 DATE: 20040311
 APPLI CATI ON: WO 2003EP10085 (20030828) *GB 200220197 (20020830)
 PAGES: 62 pp. CODEN: PI XXD2 LANGUAGE: English
 PATENT CLASSI FI CATI ONS:
 CLASS: C07K-000/A
 DESI GNATED COUNTRI ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
 CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
 GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
 LV; MA; MD; MG; MK; MN; MW; MX; NZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;
 SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;
 YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU DESI GNATED REGI ONAL: GH; GM; KE
 ; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK;
 EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MD; NL; PT; RO; SE; SI; SK; TR; BF;
 BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

37/3, K/27 (Item 21 from file: 399)
 DI ALCQ(R) File 399: CA SEARCH(R)
 (c) 2010 American Chemical Society. All rts. reserv.

140198071 CA: 140(13)198071z PATENT
 Meningococcal genetically engineered vaccine composition which has a
 fixed or locked lipooligosaccharide (LOS) immunotype
 INVENTOR(AUTHOR): Biernans, Ralph; Denoel, Philippe; Feron, Christiane;
 Goraj, Karine; Jennings, Michael Paul; Poolman, Jan; Weynants, Vincent
 LOCATI ON: Belg.
 ASSI GNEE: Gaxosmithkline Biologicals Sa; The University of Queensland
 PATENT: PCT International ; WO 200415099 A2 DATE: 20040219
 APPLI CATI ON: WO 2003EP8569 (20030731) *GB 200218037 (20020802) *GB
 200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB
 200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB
 200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB
 200230170 (20021224) *GB 20035028 (20030305)
 PAGES: 42 pp. CODEN: PI XXD2 LANGUAGE: English
 PATENT CLASSI FI CATI ONS:

CLASS: C12N-015/00A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LR; LS; LT; LV; MA; MD; MG; MK; MN; MW; MX; NZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; DESIGNATED REGIONAL: GH; GM; KE; LS; MW; NZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MD; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

37/3, K/28 (Item 22 from file: 399)

DIALOGR File 399: CA SEARCH(R)

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140198065 CA: 140(13)198065a PATENT

Vaccine compositions comprising Neisserial adhesin, autotransporter, toxin, iron acquisition protein and membrane-associated protein against Neisserial infection

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Weynants, Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International; WO 200414418 A2 DATE: 20040219

APPLICANT: WO 2003EP8571 (20030731) *GB 200218037 (20020802) *GB

200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB

200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB

200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB

200230170 (20021224) *GB 20035028 (20030305)

PAGES: 113 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATION:

CLASS: A61K-039/02A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LR; LS; LT; LV; MA; MD; MG; MK; MN; MW; MX; NZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; DESIGNATED REGIONAL: GH; GM; KE; LS; MW; NZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MD; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

37/3, K/29 (Item 23 from file: 399)

DIALOGR File 399: CA SEARCH(R)

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140180125 CA: 140(12)180125k PATENT

Vaccine composition comprising transferrin binding protein and Hsf against Neisseria meningitidis, Neisseria gonorrhoeae, Moraxella catarrhalis and Haemophilus influenzae

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Weynants, Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International; WO 200414419 A1 DATE: 20040219

APPLICANT: WO 2003EP8567 (20030731) *GB 200218037 (20020802) *GB

200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB

200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB

200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB

200230170 (20021224) *GB 20035028 (20030305)

PAGES: 64 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/095A; A61K-039/102B; A61K-039/00B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MY; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; DESIGNATED REGIONAL: GM; KE; LS; MW; MY; NZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MD; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GN; GQ; GW; ML; MR; NE; SN; TD; TG

37/3, K/30 (Item 24 from file: 399)

DI ALCOG R) File 399: CA SEARCH(R)

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140180124 CA: 140(12)180124] PATENT

Engineered meningococcal strains comprising LOS subunit or outer membrane vesicle with downregulated or deleted PorA, QpA and/or QpC for use as neisserial vaccines

INVENTOR(AUTHOR): Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Veynants, Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals SA

PATENT: PCT International; WO 200414417 A2 DATE: 20040219

APPLI CATION: WO 2003EP8568 (20030731) *GB 200218037 (20020802) *GB

200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB

200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB

200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB

200230170 (20021224) *GB 20035028 (20030305)

PAGES: 51 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/00A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MY; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; DESIGNATED REGIONAL: GM; KE; LS; MW; MY; NZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MD; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GN; GQ; GW; ML; MR; NE; SN; TD; TG

37/3, K/31 (Item 25 from file: 399)

DI ALCOG R) File 399: CA SEARCH(R)

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137293549 CA: 137(20)293549h PATENT

Multi-valent vaccine compositions

INVENTOR(AUTHOR): Boutriaux, Dominique; Capiiau, Carine; Desmons, Pierre Michel; Lemoine, Dominique; Poolman, Jan

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International; WO 200280965 A2 DATE: 20021017

APPLI CATION: WO 2002EP3573 (20020328) *GB 20018364 (20010403)

PAGES: 31 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/295A; A61K-039/385B; A61P-031/04B; A61P-031/12B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;

10523114HSFTBP.txt

CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; NZ; NO; NZ; OM; PH; PL; PT; RO; RU; SD; SE;
SG; SI; SK; SL; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZM; ZW;
AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; DESIGNATED REGIONAL: GH; GM; KE; LS; MW;
; NZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG

37/3, K/32 (Item 26 from file: 399)

DI ALCO R) File 399: CA SEARCH R)

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137184449 CA: 137(13)184449e PATENT

Vaccine composition

INVENTOR(AUTHOR): Berthet, Francois-Xavier Jacques; Lobet, Yves; Poolman,
Jan; Verlant, Vincent Georges Christian Louis

LOCATI ON: Belg.

ASSIGNEE: Smithkline Beecham Biologicals S.A.

PATENT: PCT International ; WO 200262380 A2 DATE: 20020815

APPLICATI ON: WO 2002EP1356 (20020208) *GB 20013169 (20010208)

PAGES: 75 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFI CATIONS:

CLASS: A61K-039/116A; A61P-031/04B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; NZ; NO; NZ; OM; PH; PL; PT; RO; RU; SD; SE;
SG; SI; SK; SL; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZM; ZW; AM;
AZ; BY; KG; KZ; MD; RU; TJ; TM; DESIGNATED REGIONAL: GH; GM; KE; LS; MW; NZ;
; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR;
; IE; IT; LU; MC; NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML;
MR; NE; SN; TD; TG

37/3, K/33 (Item 27 from file: 399)

DI ALCO R) File 399: CA SEARCH R)

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137184447 CA: 137(13)184447c PATENT

Vaccine composition comprising hyperblebbing Gram-neg. bacteria which

have down-regulated tol genes and mutated peptidoglycan-binding proteins

INVENTOR(AUTHOR): Berthet, Francois-Xavier Jacques; Denoel, Philippe;
Neyt, Cecile Anne; Poolman, Jan; Thonnard, Joelle

LOCATI ON: Belg.

ASSIGNEE: Smithkline Beecham Biologicals S.A.

PATENT: PCT International ; WO 200262378 A2 DATE: 20020815

APPLICATI ON: WO 2002EP1361 (20020208) *GB 20013171 (20010208)

PAGES: 71 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFI CATIONS:

CLASS: A61K-039/00A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; NZ; NO; NZ; OM; PH; PL; PT; RO; RU; SD; SE;
SG; SI; SK; SL; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZM; ZW;
AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; DESIGNATED REGIONAL: GH; GM; KE; LS; MW;
; NZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG

10523114HSFTBP.txt

37/3, K/34 (Item 28 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
(c) 2010 American Chemical Society. All rts. reserv.

136308525 CA: 136(20)308525c PATENT
Peptides mimic epitopes of meningococcal surface lipooligosaccharides and monoclonal antibodies against them for diagnosis and treatment of meningitis
INVENTOR(AUTHOR): De Bolle, Xavier Thomas; Letesson, Jean-Jacques; Lobet, Yves; Mertens, Pascal Yvon; Poolman, Jan; Voet, Pierre
LOCATION: Belg.
ASSIGNEE: Smithkline Beecham Biological S.A.
PATENT: PCT International ; WO 200228888 A2 DATE: 20020411
APPLICATION: WO 2001EP11409 (20011003) *GB 200024200 (20001003)
PAGES: 55 pp. CODEN: PIXXD2 LANGUAGE: English
PATENT CLASSIFICATIONS:
CLASS: C07K-007/04A; A61K-039/095B; G01N-033/68B; C12N-015/11B;

C12N-005/20B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; NZ; NO; NZ; PH; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

37/3, K/35 (Item 29 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
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136277516 CA: 136(18)277516u JOURNAL
Outer membrane protein vesicle vaccines for meningococcal disease
AUTHOR(S): Frasch, Carl E.; Van Alphen, Loek; Holst, Johan; Poolman, Jan T.; Rosenqvist, Einar
LOCATION: Division of Bacterial Products, Center for Biologicals Evaluation and Research, Rockville, MD, USA
JOURNAL: Methods Mol. Med. DATE: 2001 VOLUME: 66 NUMBER: Meningococcal Vaccines PAGES: 81-107 CODEN: MMFEFN LANGUAGE: English PUBLISHER: Humana Press Inc.

37/3, K/36 (Item 30 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
(c) 2010 American Chemical Society. All rts. reserv.

136276681 CA: 136(18)276681g JOURNAL
Animal models for meningococcal disease
AUTHOR(S): Corringe, Andrew R.; Reddin, Karen M.; Voet, Pierre; Poolman, Jan T.
LOCATION: Center for Applied Microbiology and Research, Salisbury, UK
JOURNAL: Methods Mol. Med. DATE: 2001 VOLUME: 66 NUMBER: Meningococcal Vaccines PAGES: 241-254 CODEN: MMFEFN LANGUAGE: English PUBLISHER: Humana Press Inc.

37/3, K/37 (Item 31 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
(c) 2010 American Chemical Society. All rts. reserv.

136068701 CA: 136(5)68701m PATENT

10523114HSFTBP.txt

Multi-valent capsular polysaccharide vaccines

INVENTOR(AUTHOR): Boutriaux, Domini que; Capi au, Carine; Desmons, Pierre
Miche l; Lemoine, Domini que; Pool man, Jan

LOCATI ON: Belg.

ASSIGNEE: Smithkline Beecham Biologicals S.A.

PATENT: PCT International ; WO 200200249 A2 DATE: 20020103

APPLICATI ON: WO 2001EP7288 (20010627) *GB 200015999 (20000629) *GB
20018363 (20010403) *GB 20018364 (20010403)

PAGES: 31 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFI CATI ONS:

CLASS: A61K-039/00A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI;
SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG;
KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ;
TZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC;
NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

37/3, K/38 (Item 32 fromfile: 399)

DI ALCOG(R) File 399: CA SEARCH(R)

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134325189 CA: 134(23)325189x PATENT

Novel method of determining antibody response to pneumococcal capsular
polysaccharide conjugate vaccine in humans

INVENTOR(AUTHOR): Laferriere, Craig Antony Joseph; Pool man, Jan; Slaoui,
Moncef Mohamed

LOCATI ON: Belg.

ASSIGNEE: Smithkline Beecham Biologicals S.A.

PATENT: PCT International ; WO 200130390 A2 DATE: 20010503

APPLICATI ON: WO 2000EP10733 (20001027) *GB 9925559 (19991028)

PAGES: 36 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFI CATI ONS:

CLASS: A61K-047/48A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR;
HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA;
MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL;
TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD;
RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG;
ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT;
SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

37/3, K/39 (Item 33 fromfile: 399)

DI ALCOG(R) File 399: CA SEARCH(R)

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134146387 CA: 134(11)146387p PATENT

Immuno-protective and non-toxic Gram-neg. bleb vaccine suitable for
pediatric use

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Dalernans, Wilfried L.
J.; Denoel, Philippe; Dequesne, Guy; Feron, Christiane; Lobet, Yves;
Pool man, Jan; Thiry, Georges; Thonnard, Joelle; Voet, Pierre

LOCATI ON: Belg.

ASSIGNEE: Smithkline Beecham Biologicals S.A.

PATENT: PCT International ; WO 200109350 A2 DATE: 20010208

APPLICATI ON: WO 2000EP7424 (20000731) *GB 9918319 (19990803)

PAGES: 128 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFI CATI ONS:

10523114HSFTBP.txt

CLASS: C12N-015/74A; A61K-039/02B; C12N-015/31B; C12N-015/67B;
A61K-039/095B; A61K-039/116B; A61K-039/118B; A61K-039/09B; A61K-039/104B;
A61K-039/102B; A61K-039/295B; C07K-014/195B; C12N-001/21B
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR;
HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA;
MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL;
TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD;
RU; TJ; TM DESIGNATED REG. NO.: GH; GM; KE; LS; MW; SD; SL; SZ; TZ; UG;
ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT;
SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

37/3, K/40 (Item 34 from file: 399)
DI ALCOG R) File 399: CA SEARCH(R)
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133265650 CA: 133(19)265650h PATENT
Vaccine
INVENTOR(AUTHOR): Capiou, Carine; Deschamps, Marguerite; Desmons, Pierre
Michel; Laferriere, Craig Antony Joseph; Poolman, Jan; Prieels, Jean-paul
LOCATION: Belg.
ASSIGNEE: Smithkline Beecham Biologicals S.A.
PATENT: PCT International; WO 200056358 A2 DATE: 20000928
APPLIC. CAT. NO.: WO 2000EP2465 (20000317) *GB 996437 (19990319) *GB 999077
(19990420) *GB 999466 (19990423) *GB 9916677 (19990715)
PAGES: 78 pp. CODEN: PIXXD2 LANGUAGE: English
PATENT CLASSIFICATION:
CLASS: A61K-039/09A; A61K-039/39B; A61K-039/385B; A61P-031/04B
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA;
CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU;
ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD;
MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM;
TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ;
TM DESIGNATED REG. NO.: GH; GM; KE; LS; MW; SD; SL; SZ; TZ; UG; ZW; AT; BE;
CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ;
CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

37/3, K/41 (Item 35 from file: 399)
DI ALCOG R) File 399: CA SEARCH(R)
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133265640 CA: 133(19)265640e PATENT
Bacterial polysaccharide antigen vaccine
INVENTOR(AUTHOR): Capiou, Carine; Deschamps, Marguerite; Desmons, Pierre
Michel; Laferriere, Craig Antony Joseph; Poolman, Jan; Prieels, Jean-paul
LOCATION: Belg.
ASSIGNEE: Smithkline Beecham Biologicals S.A.
PATENT: PCT International; WO 200056360 A2 DATE: 20000928
APPLIC. CAT. NO.: WO 2000EP2468 (20000317) *GB 996437 (19990319) *GB 999077
(19990420) *GB 999466 (19990423) *GB 9916677 (19990715)
PAGES: 79 pp. CODEN: PIXXD2 LANGUAGE: English
PATENT CLASSIFICATION:
CLASS: A61K-039/385A; A61K-039/39B; A61K-039/02B; A61K-039/005B;
A61K-039/116B; A61P-031/04B
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA;
CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU;
ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD;
MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM;
TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ;
TM DESIGNATED REG. NO.: GH; GM; KE; LS; MW; SD; SL; SZ; TZ; UG; ZW; AT; BE;
CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ;

10523114HSFTBP.txt
CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

37/3, K/42 (Item 36 from file: 399)
DI ALCOG R) File 399: CA SEARCH R)
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132075770 CA: 132(7)75770d JOURNAL
The genetic basis of the phase variation repertoire of lipopolysaccharide immunotypes in *Neisseria meningitidis*
AUTHOR(S): Jennings, Michael P.; Srikhanta, Yogitha N.; Moxon, E. Richard; Kramer, Marco; Poolman, Jan T.; Kuipers, Betsy; Van der Ley, Peter
LOCATION: Department of Microbiology and Parasitology, University of Queensland, Brisbane, 4072, Australia
JOURNAL: Microbiology (Reading, U. K.) DATE: 1999 VOLUME: 145 NUMBER: 11 PAGES: 3013-3021 CODEN: MICRO ISSN: 1350-0872 LANGUAGE: English
PUBLISHER: Society for General Microbiology

37/3, K/43 (Item 37 from file: 399)
DI ALCOG R) File 399: CA SEARCH R)
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132021928 CA: 132(3)21928t JOURNAL
Immunogenicity of various presentation forms of PorA outer membrane protein of *Neisseria meningitidis* in mice
AUTHOR(S): Peeters, Carla C. A. M.; Claassen, Ivo J. T. M.; Schuller, Margje; Kersten, Gideon F. A.; Van der Voort, Eileene M. Rouppe; Poolman, Jan T.
LOCATION: Laboratory for Vaccine development and Immune Mechanisms, National Institute of Public Health and Environment, 1, 3720 BA, Bilthoven, Neth.
JOURNAL: Vaccine DATE: 1999 VOLUME: 17 NUMBER: 20-21 PAGES: 2702-2712
CODEN: VACODE ISSN: 0264-410X PUBLISHER ITEM IDENTIFIER: 0264-410X(99)00011-0 LANGUAGE: English PUBLISHER: Elsevier Science Ltd.

37/3, K/44 (Item 38 from file: 399)
DI ALCOG R) File 399: CA SEARCH R)
(c) 2010 American Chemical Society. All rts. reserv.

131072565 CA: 131(6)72565j JOURNAL
Cellular immune responses to *Neisseria meningitidis* in children
AUTHOR(S): Pollard, Andrew J.; Galassini, Rachel; Van Der Voort, Eileene M. Rouppe; Hibberd, Martin; Booy, Robert; Langford, Paul; Nadel, Simon; Ison, Catherine; Kroll, J. Simon; Poolman, Jan; Levin, Michael
LOCATION: Paediatric Infectious Diseases Unit, Imperial College School of Medicine, St. Mary's Hospital, Norfolk Place, London, UK, W2 1PG
JOURNAL: Infect. Immun. DATE: 1999 VOLUME: 67 NUMBER: 5 PAGES: 2452-2463 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English PUBLISHER: American Society for Microbiology

37/3, K/45 (Item 39 from file: 399)
DI ALCOG R) File 399: CA SEARCH R)
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131072478 CA: 131(6)72478h JOURNAL
Humoral immune responses to *Neisseria meningitidis* in children
AUTHOR(S): Pollard, Andrew J.; Galassini, Rachel; Van Der Voort, Eileene M. Rouppe; Booy, Robert; Langford, Paul; Nadel, Simon; Ison, Catherine; Kroll, J. Simon; Poolman, Jan; Levin, Michael
LOCATION: Paediatric Infectious Diseases Unit, Imperial College School of
Page 36

10523114HSFTBP.txt

Medicine, St. Mary's Hospital, Norfolk Place, London, UK, W2 1PG

JOURNAL: Infect. Immun. DATE: 1999 VOLUME: 67 NUMBER: 5 PAGES:
2441-2451 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English PUBLISHER:
American Society for Microbiology

37/3, K/46 (Item 40 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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128060467 CA: 128(6) 60467d JOURNAL

Human B- and T-cell responses after immunization with a hexavalent PorA
meningococcal outer membrane vesicle vaccine

AUTHOR(S): Van der Voort, Eileen Rouppe; Van Dijken, Harry; Kuijpers,
Betsy; Van der Biezen, Jenny; Van der Ley, Peter; Meylis, Jolanda;
Claassen, Ivo; Poolman, Jan

LOCATION: Laboratory of Vaccine Development and Immune Mechanisms,
National Institute of Public Health and the Environment, Bilthoven, Neth.

JOURNAL: Infect. Immun. DATE: 1997 VOLUME: 65 NUMBER: 12 PAGES:
5184-5190 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English PUBLISHER:
American Society for Microbiology

37/3, K/47 (Item 41 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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127291839 CA: 127(21) 291839x JOURNAL

Bactericidal antibody recognition of a PorA epitope of Neisseria
meningitidis: crystal structure of a Fab fragment in complex with a
fluorescein-conjugated peptide

AUTHOR(S): van den Elsen, Jean M. H.; Herron, James N.; Hoogerhout, Peter
; Poolman, Jan T.; Boel, Edwin; Logtenberg, Ton; Witing, Jaap; Crommelin,
Daan J. A.; Kroon, Jan; Gros, Piet

LOCATION: Department of Pharmaceutics, Faculty of Pharmacy, Utrecht
Institute of Pharmaceutical Sciences, Utrecht University, 3584 CH, Utrecht,
Neth.

JOURNAL: Proteins: Struct., Funct., Genet. DATE: 1997 VOLUME: 29
NUMBER: 1 PAGES: 113-125 CODEN: PSFGEY ISSN: 0887-3585 LANGUAGE:
English PUBLISHER: Wiley-Liss

37/3, K/48 (Item 42 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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127064218 CA: 127(5) 64218a JOURNAL

On the interaction between a bactericidal antibody and a PorA epitope of
Neisseria meningitidis in outer membrane vesicles: a competitive
fluorescence polarization immunoassay

AUTHOR(S): van den Elsen, Jean M. H.; van Pommere, Erik; Poolman, Jan T.;
Witing, Jaap; Herron, James N.; Crommelin, Daan J. A.

LOCATION: Dep. Pharmaceutics, Utrecht Inst. Pharmaceutical Sci., Utrecht
Univ., 3584, Utrecht, Neth.

JOURNAL: Anal. Biochem. DATE: 1997 VOLUME: 247 NUMBER: 2 PAGES:
382-388 CODEN: ANBCA2 ISSN: 0003-2697 LANGUAGE: English PUBLISHER:
Academic

37/3, K/49 (Item 43 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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10523114HSFTBP.txt
 126339433 CA: 126(26)339433u JOURNAL
 Isolation and characterization of the *Neisseria meningitidis*
 lpxD-fabZ-lpxA gene cluster involved in lipid A biosynthesis
 AUTHOR(S): Steeghs, Liana; Jennings, Michael P.; Poolman, Jan T.; van der
 Ley, Peter
 LOCATION: Laboratory of Vaccine Development and Immune Mechanisms,
 National Institute of Public Health and the Environment, Antonie van
 Leeuwenhoeklaan 9, P.O. Box 1, 3720, BA Bilthoven, Neth.
 JOURNAL: Gene DATE: 1997 VOLUME: 190 NUMBER: 2 PAGES: 263-270
 CODEN: GENED6 ISSN: 0378-1119 PUBLISHER ITEM IDENTIFIER:
 0378-1119(97)00005-X LANGUAGE: English PUBLISHER: Elsevier

37/3, K/50 (Item 44 from file: 399)
 DIALOG(R) File 399: CA SEARCH(R)
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126276097 CA: 126(21)276097q JOURNAL
 Epitope specificity of murine and human bactericidal antibodies against
 PorA P1.7, 16 induced with experimental meningococcal group B vaccines
 AUTHOR(S): Rouppe van der Voort, Eilene M.; Kuipers, Betsy; Brugghe,
 Humphrey F.; van Unen, Leontine M. A.; Timmermans, Hans A. M.; Hoogerhout,
 Peter; Poolman, Jan T.
 LOCATION: Laboratory of Vaccine Development and Immune Mechanisms,
 National Institute of Public Health and the Environment, Laboratory of
 Vaccine Development and Immune Mechanisms (LVM), P.O. Box 1, 3720, BA
 Bilthoven, Neth.
 JOURNAL: FEMS Immunol. Med. Microbiol. DATE: 1997 VOLUME: 17 NUMBER: 3
 PAGES: 139-148 CODEN: FIMEVJ ISSN: 0928-8244 LANGUAGE: English
 PUBLISHER: Elsevier

37/3, K/51 (Item 45 from file: 399)
 DIALOG(R) File 399: CA SEARCH(R)
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126183541 CA: 126(14)183541q JOURNAL
 Response of *Neisseria meningitidis* to iron limitation
 AUTHOR(S): Pettersson, Annika; Poolman, Jan T.; Van Der Ley, Peter;
 Tormassen, Jan
 LOCATION: Department of Molecular Cell Biology and Institute of
 Biomembranes, Utrecht University, 3584 CH, Utrecht, Neth.
 JOURNAL: Antonie van Leeuwenhoek DATE: 1997 VOLUME: 71 NUMBER: 1-2
 PAGES: 129-136 CODEN: ALJMAO ISSN: 0003-6072 LANGUAGE: English
 PUBLISHER: Kluwer

37/3, K/52 (Item 46 from file: 399)
 DIALOG(R) File 399: CA SEARCH(R)
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126101506 CA: 126(8)101506v JOURNAL
 Sequence variability of FrpB, a major iron-regulated outer-membrane
 protein in the pathogenic neisseriae
 AUTHOR(S): van der Ley, Peter; van der Biezen, Jenny; Stumüller, Roger;
 Hoogerhout, Peter; Poolman, Jan T.
 LOCATION: Lab. Vaccine Dev. Immune Mechanisms, Natl. Inst. Public Health
 Environ., 3720 BA, Bilthoven, Neth.
 JOURNAL: Microbiology (Reading, U. K.) DATE: 1996 VOLUME: 142 NUMBER:
 11 PAGES: 3269-3274 CODEN: MICRO ISSN: 1350-0872 LANGUAGE: English
 PUBLISHER: Society for General Microbiology

37/3, K/53 (Item 47 from file: 399)
 DI ALCOG(R) File 399: CA SEARCH(R)
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126100085 CA: 126(8)100085v JOURNAL
 Analysis of the icsBA locus required for biosynthesis of the inner core
 region from *Neisseria meningitidis* lipopolysaccharide
 AUTHOR(S): van der Ley, Peter; Kramer, Marco; Martin, Adèle; Richards,
 James C.; Poolman, Jan T.
 LOCATION: Laboratory of Vaccine Development and Immune Mechanisms,
 National Institute of Public Health and the Environment, 3720 BA, Bilthoven
 , Neth.
 JOURNAL: FEMS Microbiol. Lett. DATE: 1997 VOLUME: 146 NUMBER: 2
 PAGES: 247-253 CODEN: FMEID7 ISSN: 0378-1097 LANGUAGE: English
 PUBLISHER: Elsevier

37/3, K/54 (Item 48 from file: 399)
 DI ALCOG(R) File 399: CA SEARCH(R)
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125055826 CA: 125(5)55826d JOURNAL
 Specificity of human bactericidal antibodies against PorA P1.7,16 induced
 with a hexavalent meningococcal outer membrane vesicle vaccine
 AUTHOR(S): van der Voort, Eleene Rouppe; van der Ley, Peter; van der
 Biezen, Jenny; George, Stephen; Tunnela, Outi; van Dijken, Harry; Kuipers,
 Betsy; Poolman, Jan
 LOCATION: Lab. Vaccine Development Immune Mechanisms, Natl. Inst. Public
 Health and Environment, Bilthoven, Neth.
 JOURNAL: Infect. Immun. DATE: 1996 VOLUME: 64 NUMBER: 7 PAGES:
 2745-2751 CODEN: INFIBR ISSN: 0019-9567 LANGUAGE: English

37/3, K/55 (Item 49 from file: 399)
 DI ALCOG(R) File 399: CA SEARCH(R)
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124340417 CA: 124(25)340417g JOURNAL
 Quil A, anti-carbohydrate antibody specificity and biological function
 AUTHOR(S): Snippe, H.; Alonso de Velasco, E.; Verheul, A.F.M.; Poolman,
 J. T.
 LOCATION: Eijkman-Winkler Institute for Medical and Clinical Microbiology
 , Utrecht University, 3584 CX, Utrecht, Neth.
 JOURNAL: NATO ASI Ser., Ser. A DATE: 1995 VOLUME: 282 NUMBER:
 Vaccines: New Generation Immunological Adjuvants PAGES: 25-33 CODEN:
 NALSJD ISSN: 0258-1213 LANGUAGE: English

37/3, K/56 (Item 50 from file: 399)
 DI ALCOG(R) File 399: CA SEARCH(R)
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124252269 CA: 124(19)252269e JOURNAL
 Identification of a locus involved in meningococcal lipopolysaccharide
 biosynthesis by deletion mutagenesis
 AUTHOR(S): van der Ley, Pete; Kramer, Marco; Steeghs, Liána; Kuipers,
 Betsy; Andersen, Svein R.; Jennings, Michael P.; Moxon, E. Richard;
 Poolman, Jan T.
 LOCATION: Lab. Vaccine Development and Immune Mechanisms, Natl. Inst.
 Public Health and Environmental Protection, 3720 BA, Bilthoven, Neth.
 JOURNAL: Mol. Microbiol. DATE: 1996 VOLUME: 19 NUMBER: 5 PAGES:
 1117-25 CODEN: MOME ISSN: 0950-382X LANGUAGE: English

37/3, K/57 (Item 51 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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123134286 CA: 123(11)134286q JOURNAL

Construction of *Neisseria meningitidis* strains carrying multiple chromosomal copies of the *porA* gene for use in the production of a multivalent outer membrane vesicle vaccine

AUTHOR(S): Ley, Peter van der; Biezen, Jenny van der; Poolman, Jan T.

LOCATION: National Institute Public Health and Environmental Protection, 3720 BA, Bilthoven, Neth.

JOURNAL: Vaccine DATE: 1995 VOLUME: 13 NUMBER: 4 PAGES: 401-7

CODEN: VACCDE ISSN: 0264-410X LANGUAGE: English

37/3, K/58 (Item 52 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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123048814 CA: 123(5)48814d JOURNAL

Molecular characterization of the structural gene for the lactoferrin receptor of the meningococcal strain H44/76.

AUTHOR(S): Pettersson, Annika; Kärenbeek, Vincent; van Deurzen, Jolanda;

Poolman, Jan T.; Tomassen, Jan

LOCATION: Department of Molecular Cell Biology, Utrecht University, 3584 CH, Utrecht, Neth.

JOURNAL: Microb. Pathog. DATE: 1994 VOLUME: 17 NUMBER: 6 PAGES:

395-408 CODEN: MPAEV ISSN: 0882-4010 LANGUAGE: English

37/3, K/59 (Item 53 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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122311473 CA: 122(25)311473a JOURNAL

Cloning and molecular analysis of the *galE* gene of *Neisseria meningitidis* and its role in lipopolysaccharide biosynthesis

AUTHOR(S): Jennings, Michael P.; Ley, Peter Van Der; Wilks, Kathy E.;

Maskell, Duncan J.; Poolman, Jan T.; Moxon, Richard E.

LOCATION: Institute Molecular Medicine, John Radcliffe Hospital, Headington/Oxford, UK, OX3 9DU

JOURNAL: Ann. N. Y. Acad. Sci. DATE: 1994 VOLUME: 730 NUMBER:

MICROBIAL PATHOGENESIS AND IMMUNE RESPONSE PAGES: 252-4 CODEN: ANYAA9
ISSN: 0077-8923 LANGUAGE: English

37/3, K/60 (Item 54 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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121238310 CA: 121(20)238310t JOURNAL

Non-specific modulation of the immune response with liposomal meningococcal lipopolysaccharide: role of different cells and cytokines

AUTHOR(S): Petrov, Alexander B.; Kolenko, Vladimir M.; Koshkina, Nadezhda

V.; Zakirov, Muxim M.; Bugaev, Lev V.; Serenova, Irina B.; Wertz, Emmanuel J. H. J.; Poolman, Jan T.

LOCATION: Mechnikov Research Institute for Vaccines and Sera, Moscow, Russia, 103064

JOURNAL: Vaccine DATE: 1994 VOLUME: 12 NUMBER: 12 PAGES: 1064-70

CODEN: VACCDE ISSN: 0264-410X LANGUAGE: English

37/3, K/61 (Item 55 from file: 399)
 DIALOG(R) File 399: CA SEARCH(R)
 (c) 2010 American Chemical Society. All rts. reserv.

121228043 CA: 121(19)228043u CONFERENCE PROCEEDING
 Development of outer membrane protein-lipopolysaccharide-based vaccines
 against group-B meningococci
 AUTHOR(S): Poolman, Jan T.; van der Ley, Peter A.; Peeters, Carla C. A.
 M.; Werta, Emmanuel J. H. J.; Hoogerhout, Peter; Gaassen, Ivo J. T. M.
 LOCATION: Lab. Vaccine Dev., RIVM 3720, Bilthoven, Neth.
 JOURNAL: Vaccines 94: Mod. Approaches New Vaccines Incl. Prev. AIDS,
 (Annu. Meet.), 11th EDITOR: Norrby, Erling (Ed), DATE: 1994 PAGES:
 137-40 CODEN: 60PMAJ LANGUAGE: English MEETING DATE: 930000 PUBLISHER:
 Cold Spring Harbor Lab. Press, Cold Spring Harbor, N.Y.

37/3, K/62 (Item 56 from file: 399)
 DIALOG(R) File 399: CA SEARCH(R)
 (c) 2010 American Chemical Society. All rts. reserv.

121078188 CA: 121(7)78188d PATENT
 Immunogenic meningococcal lipopolysaccharides and outer membrane vesicles
 and vaccines derived from them
 INVENTOR(AUTHOR): Van Der Ley, Peter Andre; Poolman, Jan Theunis;
 Hoogerhout, Peter
 LOCATION: Neth.
 ASSIGNEE: De Staat der Nederlanden, Vertegenwoordigd Door de Minister van
 Welzijn, k
 PATENT: PCT International; WO 9408021 A1 DATE: 940414
 APPLICATION: WO 93NL163 (930730) *NL 921716 (921002)
 PAGES: 62 pp. CODEN: PIXXD2 LANGUAGE: English
 PATENT CLASSIFICATIONS:
 CLASS: C12N-015/61A; A61K-039/095B; C08B-037/00B; C12P-019/04B;
 C07K-009/00B; C12N-015/31B; C12N-001/21B; C07K-015/00B; C12N-001/21J;
 C12R-001/36J
 DESIGNATED COUNTRIES: AT; AU; BB; BG; BR; BY; CA; CH; CZ; DE; DK; ES; FI;
 GB; HU; JP; KP; KR; KZ; LK; LU; MG; MN; MW; NL; NO; NZ; PL; PT; RO; RU; SD;
 SE; SK; UA; US; VN DESIGNATED REGIONAL: AT; BE; CH; DE; DK; ES; FR; GB; GR;
 IE; IT; LU; MC; NL; PT; SE; BF; BJ; OF; OQ; OI; OM; GA; GN; ML; MR; NE;
 SN; TD; TG

37/3, K/63 (Item 57 from file: 399)
 DIALOG(R) File 399: CA SEARCH(R)
 (c) 2010 American Chemical Society. All rts. reserv.

120160967 CA: 120(13)160967v JOURNAL
 Molecular characterization of the 98-kilodalton iron-regulated outer
 membrane protein of *Neisseria meningitidis*
 AUTHOR(S): Pettersson, Annika; van der Ley, Peter; Poolman, Jan T.;
 Tomassen, Jan
 LOCATION: Inst. Biomembr., Utrecht Univ., 3584 CH, Utrecht, Neth.
 JOURNAL: Infect. Immun. DATE: 1993 VOLUME: 61 NUMBER: 11 PAGES:
 4724-33 CODEN: INFIBR ISSN: 0019-9567 LANGUAGE: English

37/3, K/64 (Item 58 from file: 399)
 DIALOG(R) File 399: CA SEARCH(R)
 (c) 2010 American Chemical Society. All rts. reserv.

119268459 CA: 119(25)268459z JOURNAL
 Use of transformation to construct antigenic hybrids of the class 1 outer
 membrane protein in *Neisseria meningitidis*

10523114HSFTBP.txt

AUTHOR(S): van der Ley, Peter; van der Biezen, Jenny; Hohenstein, Peter; Peeters, Carla; Poolman, Jan T.

LOCATION: Natl. Inst. Public Health Environ. Prote., 3720 BA, Bilthoven, Neth.

JOURNAL: Infect. Immun. DATE: 1993 VOLUME: 61 NUMBER: 10 PAGES: 4217-24 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English

37/3, K/65 (Item 59 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

119080197 CA: 119(8)80197h PATENT

Saccharide-peptide conjugate, its preparation and use in vaccine against gram-negative bacteria

INVENTOR(AUTHOR): Hoogerhout, Peter; Poolman, Jan Theunis; Wertz, Jacques Henri; van Boom, Jacques Hubertus; van der Marel, Gysbert Arie; Boons, Gerardus Josephus Petrus

LOCATION: Neth.

ASSIGNEE: Minister van Welzijn, Volksgezondheid en Cultuur

PATENT: Netherlands Appl. ; NL 9101359 A DATE: 930301

APPLICATION: NL 911359 (910807)

PAGES: 45 pp. CODEN: NAXXAN LANGUAGE: Netherlandish

PATENT CLASSIFICATIONS:

CLASS: A61K-039/02A; A61K-039/095B; C07K-017/10B; C08B-037/00B; C08H-001/00B

37/3, K/66 (Item 60 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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119069941 CA: 119(7)69941a JOURNAL

Microheterogeneity in the recognition of a HLA-DR2-restricted T cell epitope from a meningococcal outer membrane protein

AUTHOR(S): Wertz, Emmanuel; Van Gaans-Van den Brink, Jacqueline; Hoogerhout, Peter; Poolman, Jan

LOCATION: Natl. Inst. Public Health Environ., 3720 BA, Bilthoven, Neth.

JOURNAL: Eur. J. Immunol. DATE: 1993 VOLUME: 23 NUMBER: 1 PAGES: 232-9 CODEN: EJIMAF ISSN: 0014-2980 LANGUAGE: English

37/3, K/67 (Item 61 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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119067447 CA: 119(7)67447v JOURNAL

The lipooligosaccharide immunotype as a virulence determinant in *Neisseria meningitidis*

AUTHOR(S): Jones, Dennis M.; Borrow, Raymond; Fox, Andrew J.; Gray, Stephen; Cartwright, Keith A.; Poolman, Jan T.

LOCATION: Manchester Public Health Lab., Withington Hosp., Manchester, UK, M20 8LR

JOURNAL: Microb. Pathog. DATE: 1992 VOLUME: 13 NUMBER: 3 PAGES: 219-24 CODEN: MPAEV ISSN: 0882-4010 LANGUAGE: English

37/3, K/68 (Item 62 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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118076965 CA: 118(9)76965u JOURNAL

Clonal and antigenic analysis of serogroup A *Neisseria meningitidis* with

10523114HSFTBP.txt

particular reference to epidemiological features of epidemic meningitis in the People's Republic of China

AUTHOR(S): Wang, Jian Fu; Caugant, Dominique A.; Li, Xinwu; Hu, Xujing; Poolman, Jan T.; Crowe, Brian A.; Achtman, Mark

LOCATION: Max-Planck Inst. Mol. Genet., Berlin, Germany, DW1000/33

JOURNAL: Infect. Immun. DATE: 1992 VOLUME: 60 NUMBER: 12 PAGES: 3567-82 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English

37/3, K/69 (Item 63 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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118020553 CA: 118(3)20553r JOURNAL

Construction of a multivalent meningococcal vaccine strain based on the class 1 outer membrane protein

AUTHOR(S): Van der Ley, Peter; Poolman, Jan T.

LOCATION: Natl. Inst. Public Health Environ. Prot., 3720 BA, Bilthoven, Neth.

JOURNAL: Infect. Immun. DATE: 1992 VOLUME: 60 NUMBER: 8 PAGES: 3156-61 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English

37/3, K/70 (Item 64 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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117109653 CA: 117(11)109653a JOURNAL

Identification of T cell epitopes occurring in a meningococcal class 1 outer membrane protein using overlapping peptides assembled with simultaneous multiple peptide synthesis

AUTHOR(S): Wertz, Emmanuel J. H. J.; Van Gaans-Van den Brink, Jacqueline A. M.; Gausepohl, Heinrich; Prochnicka-Chalufour, Ada; Hoogerhout, Peter; Poolman, Jan T.

LOCATION: Natl. Inst. Public Health Environ. Prot., 3720 BA, Bilthoven, Neth.

JOURNAL: J. Exp. Med. DATE: 1992 VOLUME: 176 NUMBER: 1 PAGES: 79-88 CODEN: JEMEA V ISSN: 0022-1007 LANGUAGE: English

37/3, K/71 (Item 65 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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117022939 CA: 117(3)22939z JOURNAL

Topology of outer membrane porins in pathogenic *Neisseria* spp

AUTHOR(S): Van der Ley, Peter; Heckels, John E.; Virji, Mumtaz;

Hoogerhout, Peter; Poolman, Jan T.

LOCATION: Natl. Inst. Public Health Environ. Prot., 3720 BA, Bilthoven, Neth.

JOURNAL: Infect. Immun. DATE: 1991 VOLUME: 59 NUMBER: 9 PAGES: 2963-71 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English

37/3, K/72 (Item 66 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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116039313 CA: 116(5)39313t JOURNAL

The influence of the adjuvant Quil A on the epitope specificity of meningococcal lipopolysaccharide anti-carbohydrate antibodies

AUTHOR(S): Verheul, Andre F. M.; Poolman, Jan T.; Snippe, Harm Verhoef, Jan

10523114HSFTBP.txt
LOCATION: Dep. Exp. Microbiol., Utrecht Univ., NL-3584 CX, Utrecht, Neth.
JOURNAL: Mol. Immunol. DATE: 1991 VOLUME: 28 NUMBER: 11 PAGES:
1193-200 CODEN: MOIMD5 ISSN: 0161-5890 LANGUAGE: English

37/3, K/73 (Item 67 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
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116019384 CA: 116(3)19384p JOURNAL
T cell recognition of Neisseria meningitidis class 1 outer membrane
proteins. Identification of T cell epitopes with selected synthetic
peptides and determination of HLA restriction elements
AUTHOR(S): Wertz, Emmanuel J. H. J.; Van Gaans-Van den Brink, Jacqueline
A. M.; Schreuder, Gezi ena M. T. H.; Termijtelen, Annemarie A. M.;
Hoogerhout, Peter; Poolman, Jan T.
LOCATION: Natl. Inst. Public Health Environ. Protect., 3720 BA, Bilthoven
, Neth.
JOURNAL: J. Immunol. DATE: 1991 VOLUME: 147 NUMBER: 6 PAGES: 2012-18
CODEN: JOIM3 ISSN: 0022-1767 LANGUAGE: English

37/3, K/74 (Item 68 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
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116004793 CA: 116(1)4793x JOURNAL
Effect of carrier priming on immunogenicity of saccharide-protein
conjugate vaccines
AUTHOR(S): Peeters, Carla C. A. M.; Tenbergen-Meekes, Anne Marie;
Poolman, Jan T.; Beurret, Michel; Zegers, Ben J. M.; Rijkers, Ger T.
LOCATION: Dep. Immunol., Univ. Hosp. Child. Youth, 3501 CA, Utrecht,
Neth.
JOURNAL: Infect. Immun. DATE: 1991 VOLUME: 59 NUMBER: 10 PAGES:
3504-10 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English

37/3, K/75 (Item 69 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
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115112260 CA: 115(11)112260j CONFERENCE PROCEEDING
Mapping of human T-cell epitopes, occurring in the meningococcal class 1
outer membrane protein
AUTHOR(S): Wertz, Emmanuel J. H. J.; Van Gaans, Jacqueline A. M.;
Hoogerhout, Peter; Seid, Robert C., Jr.; Heckels, John E.; Schreuder,
Gezi ena M. T.; Poolman, Jan T.
LOCATION: Natl. Inst. Public Health and Environ. Protect., 3720 BA,
Bilthoven, Neth.
JOURNAL: Pept.: Chem. Struct. Biol., Proc. Am. Pept. Symp., 11th
EDITOR: Rivier, Jean E. (Ed), Marshall, Garland R. (Ed), DATE: 1990
PAGES: 731-2 CODEN: 56XTA7 LANGUAGE: English MEETING DATE: 890000
PUBLISHER: ESCOM Sci. Pub., Leiden, Neth

37/3, K/76 (Item 70 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
(c) 2010 American Chemical Society. All rts. reserv.

114141403 CA: 114(15)141403t PATENT
Meningococcal class 1 outer membrane protein vaccine
INVENTOR(AUTHOR): Seid, Robert C., Jr.; Paradiso, Peter R.; Poolman, Jan
T.; Hoogerhout, Peter; Wertz, Emmanuel J. H. J.; Van der Ley, Peter;

Heckels, John Edward; Clarke, Ian Nicholas

LOCATION: USA
 ASSIGNEE: Praxis Biologics, Inc.; Rijksinstituut voor Volksgezondheid en Milieuhygiëne
 PATENT: PCT International ; WO 9006696 A2 DATE: 900628
 APPLICATION: WO 89US5678 (891219) *NL 883111 (881219) *NL 8930 (890106)
 *NL 891612 (890626)
 PAGES: 121 pp. CODEN: PIXXD2 LANGUAGE: English
 PATENT CLASSIFICATION:
 CLASS: A31K-039/095; C07K-013/00; C07K-007/04; A61K-039/39;
 A61K-039/385; C12N-015/31; C12N-015/62; C12P-001/36
 DESIGNATED COUNTRIES: AU; DK; FI; JP; NO; US DESIGNATED REGIONAL: AT; BE;
 CH; DE; ES; FR; GB; IT; LU; NL; SE

37/3, K/77 (Item 71 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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113229202 CA: 113(25)229202s JOURNAL
 Monoclonal antibodies against the 70-kilodalton iron-regulated protein of *Neisseria meningitidis* are bactericidal and strain specific
 AUTHOR(S): Petterson, Annika; Kuipers, Betsy; Pelzer, Marga; Verhagen, Ely; Tiesjema, Rudy H.; Tommassen, Jan; Poolman, Jan T.
 LOCATION: Lab. Bacter. Vaccines, Natl. Public Health Environ. Prot., 3720 BA, Bilthoven, Neth.
 JOURNAL: Infect. Immun. DATE: 1990 VOLUME: 58 NUMBER: 9 PAGES: 3036-41 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English

37/3, K/78 (Item 72 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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113150210 CA: 113(17)150210j JOURNAL
 Deduced amino acid sequences of class 1 protein (PorA) from three strains of *Neisseria meningitidis*. Synthetic peptides define the epitopes responsible for serosubtype specificity
 AUTHOR(S): McGuinness, Brian; Barlow, Ann K.; Clarke, Ian N.; Farley, John E.; Anilioni, Algis; Poolman, Jan T.; Heckels, John E.
 LOCATION: Med. Sch., Univ. Southampton, Southampton, UK, SO9 4XY
 JOURNAL: J. Exp. Med. DATE: 1990 VOLUME: 171 NUMBER: 6 PAGES: 1871-82 CODEN: JEMEA V ISSN: 0022-1007 LANGUAGE: English

37/3, K/79 (Item 73 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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113055510 CA: 113(7)55510y JOURNAL
 Isolation of *Neisseria meningitidis* mutants deficient in class 1 (PorA) and class 3 (PorB) outer membrane proteins
 AUTHOR(S): Tommassen, Jan; Vermeij, Paul; Struyve, Marlies; Benz, Roland; Poolman, Jan T.
 LOCATION: Inst. Mol. Biol. Med. Biotechnol., State Univ. Utrecht, 3584 CH, Utrecht, Neth.
 JOURNAL: Infect. Immun. DATE: 1990 VOLUME: 58 NUMBER: 5 PAGES: 1355-9 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English

37/3, K/80 (Item 74 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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110151020 CA: 110(17)151020x JOURNAL
Purification, cyanogen bromide cleavage, and amino terminus sequencing of class 1 and class 3 outer membrane proteins of meningococci
AUTHOR(S): Poolman, Jan T.; Timmermans, Hans A. M.; Teerlink, Tom; Seid, Robert C., Jr.
LOCATION: Dep. Bact. Vaccine Dev., Natl. Inst. Public Health Environ. Prot., Bilthoven, Neth.
JOURNAL: Infect. Immun. DATE: 1989 VOLUME: 57 NUMBER: 3 PAGES: 1005-7
CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English

37/3, K/81 (Item 75 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
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109168547 CA: 109(19)168547b JOURNAL
Electromorphic characterization and description of conserved epitopes of the lipooligosaccharides of group A Neisseria meningitidis
AUTHOR(S): Kim, Janice J.; Mandrell, Robert E.; Hu, Zhen; Westerink, M. A. Julie; Poolman, Jan T.; Griffiss, McLeod
LOCATION: Cent. Immunochem, Univ. California, San Francisco, CA, 94143, USA
JOURNAL: Infect. Immun. DATE: 1988 VOLUME: 56 NUMBER: 10 PAGES: 2631-8
CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English

37/3, K/82 (Item 76 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
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109147592 CA: 109(17)147592x JOURNAL
Monoclonal antibodies to the rough lipopolysaccharide of Neisseria meningitidis protect infant rats from meningococcal infection
AUTHOR(S): Saukkonen, Kirsi; Leinonen, Maija; Kayhty, Helena; Abdillahi, Hussein; Poolman, Jan T.
LOCATION: Natl. Public Health Inst., Helsinki, Finland
JOURNAL: J. Infect. Dis. DATE: 1988 VOLUME: 158 NUMBER: 1 PAGES: 209-12
CODEN: JIDIAQ ISSN: 0022-1899 LANGUAGE: English

37/3, K/83 (Item 77 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
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108053934 CA: 108(7)53934n JOURNAL
Protective efficacy of monoclonal antibodies to class 1 and class 3 outer membrane proteins of Neisseria meningitidis B:15:P1.16 in infant rat infection model: new prospects for vaccine development
AUTHOR(S): Saukkonen, Kirsi; Abdillahi, Hussein; Poolman, Jan T.; Leinonen, Maija
LOCATION: Natl. Public Health Inst., SF-00280, Helsinki, Finland
JOURNAL: Microb. Pathog. DATE: 1987 VOLUME: 3 NUMBER: 4 PAGES: 261-7
CODEN: MPAEV ISSN: 0882-4010 LANGUAGE: English

37/3, K/84 (Item 78 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
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104166503 CA: 104(19)166503g CONFERENCE PROCEEDING
Proposed scheme for identification of serotypes of Neisseria meningitidis
AUTHOR(S): Frasch, Carl E.; Zollinger, Wendell D.; Poolman, Jan T.
Page 46

10523114HSFTBP.txt

LOCATION: Div. Bact. Prod., Cent. Drugs Biol., Bethesda, MD, 20205, USA
JOURNAL: Pathog. Neisseriae, Proc. Int. Symp., 4th EDITOR: Schoolnik,
Gary K (Ed), DATE: 1985 PAGES: 519-24 CODEN: 54ZAAE LANGUAGE: English
MEETING DATE: 840000 PUBLISHER: Am Soc. Microbiol., Washington, D. C

37/3, K/85 (Item 79 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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104105821 CA: 104(13)105821n CONFERENCE PROCEEDING

Influence of the length of lipopolysaccharide molecules on the surface
exposure of class 1 and 2 outer membrane proteins of *Neisseria*
meningitidis 2996 (B:2b:P1.2)

AUTHOR(S): Poolman, Jan T.; Wentjes, Frans B.; Hopman, Carla T. P.;
Zanen, H. C.

LOCATION: Lab. Med. Microbiol., Univ. Amsterdam 1105 AZ, Amsterdam
Neth.

JOURNAL: Pathog. Neisseriae, Proc. Int. Symp., 4th EDITOR: Schoolnik,
Gary K (Ed), DATE: 1985 PAGES: 562-70 CODEN: 54ZAAE LANGUAGE: English
MEETING DATE: 840000 PUBLISHER: Am Soc. Microbiol., Washington, D. C

37/3, K/86 (Item 80 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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102130006 CA: 102(15)130006s JOURNAL

Monoclonal antibody activity against native and denatured forms of
gonococcal outer membrane proteins as detected within ultrathin,
longitudinal slices of polyacrylamide gels

AUTHOR(S): Poolman, Jan T.; Buchanan, Thomas M

LOCATION: Immunol. Res. Lab., Pac. Med. Cent., Seattle, WA, 98114, USA
JOURNAL: J. Immunol. Methods DATE: 1984 VOLUME: 75 NUMBER: 2 PAGES:
265-74 CODEN: JIMMBG ISSN: 0022-1759 LANGUAGE: English

37/3, K/87 (Item 1 from file: 149)

DIALOG(R) File 149: TGG Health&Wellness DB(SM)

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01394621 SUPPLIER NUMBER: 13913418

Meningococcal lipopolysaccharides: virulence factor and potential vaccine
component.

Verhuel, A.F.M.; Shippe, H.; Poolman, J.T.

Microbiological Reviews, v57, n1, p34(15)

March,

1993

PUBLICATION FORMAT: Magazine/Journal ISSN: 0146-0749 LANGUAGE: English

RECORD TYPE: Abstract TARGET AUDIENCE: Academic

... Poolman, J. T.

ABSTRACT: Lipopolysaccharides (LPS) are found in the outer membrane of the
gram-negative diplococcus *Neisseria meningitidis* and are linked to
the virulence of the bacteria. The differences between the immunotypes...

... DESCRIPTION: *Neisseria meningitidis*

37/3, K/88 (Item 2 from file: 149)

DIALOG(R) File 149: TGG Health&Wellness DB(SM)

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01295121 SUPPLIER NUMBER: 10519497 (USE FORMAT 7 OR 9 FOR FULL TEXT)
 Point mutation in meningococcal por A gene associated with increased
 endemic disease.
 McGuinness, B.T.; Clarke, I.N.; Lambden, P.R.; Barlow, A.K.; Poolman,
 J.T.; Jones, D.M.; Heckels, J.E.
 The Lancet, v337, n8740, p514(4)
 March 2,
 1991
 PUBLICATION FORMAT: Magazine/Journal ISSN: 0099-5355 LANGUAGE: English
 RECORD TYPE: Fulltext; Abstract TARGET AUDIENCE: Professional
 WORD COUNT: 2000 LINE COUNT: 00200

...Poolman, J.T

ABSTRACT: Meningococci (*Neisseria meningitidis*) are organisms that
 cause meningococcal infections, of which the most common complication is
 meningitis...

...one case of meningitis in Gloucester was analyzed. Por A genes from
 other strains of *Neisseria meningitidis* were also analyzed for
 comparative purposes. Results showed that the amino acid sequence from...

TEXT:

...protein, responsible for antigenic subtype specificity, has been
 cloned and sequenced in an isolate of *Neisseria meningitidis*
 (B:15:P1,7,16) from a patient in the Gloucester area with meningococcal...
 ... properties of the class 1 protein in this and related isolates.

Methods

All isolates of *Neisseria meningitidis* were from patients with
 meningococcal meningitis and were submitted to the PHLS Meningococcal
 Reference...KAV, Stuart JM Jones DM Noah ND. The Stonehouse survey:
 nasopharyngeal carriage of meningococci and *Neisseria lactamica*,
 Epidemiol Infect 1987; 99: 591-601.

(2) Poolman JT, Lind I, Jonsdottir K, Froholm...

...58.

(3) Knight AI, Cartwright KAV, McFadden J. Identification of a UK
 outbreak strain of *Neisseria meningitidis* with a DNA probe. Lancet
 1990; 335: 1182-84.

(4) McGuinness B, Barlow AK...

...al. Deduced amino acid sequences of class 1 protein (Por A) from three
 strains of *Neisseria meningitidis*: synthetic peptides define the
 epitopes responsible for serosubtype specificity. J Exp Med 1990; 171:
 1871-78.

(5) Frasch CE, Zollinger WD, Poolman JT. Serotype antigens of
Neisseria meningitidis and a proposed scheme for designation of
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... DESCR PTORS: *Neisseria meningitidis*...

... *Neisseria meningitidis*

? E AU=WEYNANTS, VINCENT

Ref	Items	Index-term
E1	9	AU=WEYNANTS, V. E.
E2	8	AU=WEYNANTS, VE
E3	33	*AU=WEYNANTS, VINCENT
E4	12	AU=WEYNANTS, VINCENT E
E5	7	AU=WEYNANTS, VINCENT E.
E6	4	AU=WEYNARD L. S.
E7	1	AU=WEYNBANNINGH L
E8	3	AU=WEYNBERG K. D.
E9	1	AU=WEYNBERG KAREN D
E10	1	AU=WEYNBERG KD
E11	2	AU=WEYNBERG P A
E12	1	AU=WEYNBERG K. D.

Enter P or PAGE for more

? S E1-EE5

>>>Invalid term EE5

? S E1-E5

9	AU=WEYNANTS, V. E.
8	AU=WEYNANTS, VE
33	AU=WEYNANTS, VINCENT
12	AU=WEYNANTS, VINCENT E
7	AU=WEYNANTS, VINCENT E.

S38 69 E1-E5

? S S38 AND (HSF OR TRANSFERRIN OR NEISSERIA)

69	S38
11528	HSF
205291	TRANSFERRIN
158727	NEISSERIA

S39 37 S38 AND (HSF OR TRANSFERRIN OR NEISSERIA)

? RD

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S40 17 RD (unique items)

? T S40/3, K/1-17

>>>KWC option is not available in file(s): 399

40/3, K/1 (Item 1 from file: 24)

DIALOG File 24: CSA Life Sciences Abstracts

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0004246786

IP ACCESSION NO: 13315803

An Outer Membrane Receptor of *Neisseria meningitidis* Involved in Zinc

Acquisition with Vaccine Potential

Stork, Mchiel; Bos, Martine P; Jongerius, Ilse; de Kok, Natasja; Schilders, Ingrid; Veynants, Vincent E; Poolman, Jan T; Tommassen, Jan
Department of Molecular Microbiology, Utrecht University, Utrecht, The Netherlands

PLoS Pathogens, v 6, n 7, p [np], July 1, 2010

PUBLICATION DATE: 2010

PUBLISHER: Public Library of Science, 185 Berry Street San Francisco CA 94107 United States of America

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 1553-7366

ELECTRONIC ISSN: 1553-7374

FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Immunology Abstracts

An Outer Membrane Receptor of *Neisseria meningitidis* Involved in Zinc Acquisition with Vaccine Potential

Stork, Mchiel; Bos, Martine P; Jongerius, Ilse; de Kok, Natasja; Schilders, Ingrid; Veynants, Vincent E; Poolman, Jan T; Tommassen, Jan

ABSTRACT:

... of identifying novel vaccine candidates, we characterized in this study a hitherto unknown receptor in *Neisseria meningitidis*. We demonstrate that this receptor, designated ZnuD, is produced under zinc limitation and that...

...In a search for putative vaccine components, we have characterized here a new receptor of *Neisseria meningitidis*, a resident of the nasopharynx that occasionally causes sepsis and meningitis. We show that...

... DESCRIPTORS: membranes; Pathogens; Respiratory tract; Sepsis; Survival; Vaccines; Zinc; meningococcal disease; pore-forming proteins; virulence factors; *Neisseria meningitidis*

40/3,K/2 (Item 2 from file: 24)

DI ALCOG R) File 24: CSA Life Sciences Abstracts

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0003160890 I.P. ACCESSION NO: 7931981

Additive and Synergistic Bactericidal Activity of Antibodies Directed against Major Outer Membrane Proteins of *Neisseria meningitidis*

Veynants, Vincent E; Feron, Christiane M; Goraj, Karine K; Bos, Martine P; Denoel, Philippe A; Verlant, Vincent G; Tommassen, Jan; Peak, Ian RA; Judd, Ralph C; Jennings, Michael P; Poolman, Jan T
GlaxoSmithKline Biologicals, B-1330 Rixensart, Belgium Department of Molecular Microbiology, Utrecht University, 3584-CH Utrecht, The Netherlands. Institute for Glycomics, Griffith University, Southport QLD 4215, Australia. Division of Biological Sciences, University of Montana, Missoula, Montana 59812. School of Molecular & Microbial Sciences, University of Queensland, Brisbane QLD 4072, Australia

10523114HSFTBP.txt
Infection and Immunity, v 75, n 11, p 5434-5442, November 2007
PUBLICATION DATE: 2007

PUBLISHER: American Society for Microbiology, 1752 N Street N.W.
Washington, DC 20036 USA, [URL: <http://www.asm.org/>]

DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English
ISSN: 0019-9567
ELECTRONIC ISSN: 1098-5522
FILE SEGMENT: Immunology Abstracts; Bacteriology Abstracts (Microbiology B)

Additive and Synergistic Bactericidal Activity of Antibodies Directed
against Minor Outer Membrane Proteins of *Neisseria meningitidis*

Weynants, Vincent E; Feron, Christiane M; Goraj, Karine K; Bos,
Martine P; Denoel, Philippe A; Verlant...

ABSTRACT:

Neisseria meningitidis serogroup B is a major cause of bacterial
meningitis in younger populations. The available...

... DESCRIPTORS: Antibodies; Bactericidal activity; Children; Complement;
Cross-protection; Membrane vesicles; Meningitis; Mimicry; Vaccines;
outer membrane proteins; *Neisseria meningitidis*

40/3, K/3 (Item 3 from file: 24)
DIALOG(R) File 24: CSA Life Sciences Abstracts
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0003148817 IP ACCESSION NO: 7930386
Comparison of Phenotypically Indistinguishable but Geographically Distinct
Neisseria meningitidis Group B Isolates in a Serum Bactericidal
Antibody Assay

Findlow, Jamie; Holland, Ann; Andrews, Nick; Weynants, Vincent;
Sotolongo, Franklin; Balmer, Paul; Poolman, Jan; Borrow, Ray
Vaccine Evaluation Unit, Health Protection Agency North West, Manchester
Laboratory, Manchester Medical Microbiology Partnership, P.O. Box 209, 2nd
Floor, Clinical Sciences Building II, Manchester Royal Infirmary,
Manchester, M13 9WL Health Protection Agency, Centre for Infections,
Colindale, London, NW9 5EQ United Kingdom GSK SmithKline Biologicals,
Rixensart, Belgium Finlay Institute, Ave 27N. 19085, La Lisa A P 160017,
Cod 11600, Havana, Cuba

Clinical and Vaccine Immunology, v 14, n 11, p 1451-1457, November 2007
PUBLICATION DATE: 2007

PUBLISHER: American Society for Microbiology, 1752 N Street N.W.
Washington, DC 20036 USA, [URL: <http://www.asm.org/>]

DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English
ISSN: 1556-6811
ELECTRONIC ISSN: 1556-679X
FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Immunology Abstracts

Comparison of Phenotypically Indistinguishable but Geographically Distinct
Page 51

Neisseria meningitidis Group B Isolates in a Serum Bactericidal
Antibody Assay

Findlow, Jamie; Holland, Ann; Andrews, Nick; Weynants, Vincent;
Sotolongo, Franklin; Balmer, Paul; Poolman, Jan; Borrow, Ray

ABSTRACT:

The "gold standard" assay for measuring serologic protection against
Neisseria meningitidis group B (MenB) is the serum bactericidal
antibody (SBA) assay. Of vital importance to...

DESCRIPTORS: Antibodies; Capsular polysaccharides; Genotypes;
Lipooligosaccharides; Membrane vesicles; Outer membranes;
Standardization; Vaccines; Neisseria meningitidis

40/3, K/4 (Item 4 from file: 24)
DIALOG(R) File 24: CSA Life Sciences Abstracts
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0002964326 IP ACCESSION NO: 7175484
Shielding of immunogenic domains in Neisseria meningitidis FrpB
(FetA) by the major variable region

Kortekaas, Jeroen; Pettersson, Annika; Van der Biezen, Jenny;
Weynants, Vincent E; Van der Ley, Peter; Poolman, Jan; Bos,
Martine P; Tommassen, Jan
Department of Molecular Microbiology and Institute of Biomembranes, Utrecht
University, Padualaan, 3584 CH Utrecht, The Netherlands,
[mailto:m.p.bos@i.o.uu.nl]

Vaccine, v 25, n 1, p 72-84, January 2007
PUBLICATION DATE: 2007

PUBLISHER: Elsevier Science Ltd., The Boulevard Langford Lane Kidlington
Oxford OX5 1GB UK, [mailto:usinfo-f@elsevier.com],
[URL: http://www.elsevier.nl]

DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English
ISSN: 0264-410X
FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Immunology Abstracts

Shielding of immunogenic domains in Neisseria meningitidis FrpB
(FetA) by the major variable region

Kortekaas, Jeroen; Pettersson, Annika; Van der Biezen, Jenny;
Weynants, Vincent E; Van der Ley, Peter; Poolman, Jan; Bos,
Martine P; Tommassen, Jan

...DESCRIPTORS: sequence; Epitope mapping; Immune response; Immunity;
Immunization; Immunofluorescence; Microscopy; Vaccines; Variable
region; outer membrane proteins; Neisseria meningitidis

40/3, K/5 (Item 5 from file: 24)
DIALOG(R) File 24: CSA Life Sciences Abstracts
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10523114HSFTBP.txt
0002950345 I.P. ACCESSION NO: 7047661
Immunogenicity and structural characterisation of an in vitro folded
meningococcal siderophore receptor (FrpB, FetA)

Kortekaas, Jeroen; Mueller, Shirley A; Ringler, Philippe; Gregorini,
Marco; Veynants, Vincent E; Rutten, Lucy; Bos, Martine P;
Tomassen, Jan
Department of Molecular Microbiology, Institute of Biomechanics, Utrecht
University, Padualaan 8, 3584 CH Utrecht, The Netherlands,
[mailto:m.p.bos@io.uu.nl]

Microbes and Infection, v 8, n 8, p 2145-2153, July 2006
PUBLICATION DATE: 2006

PUBLISHER: Editions Scientifiques et Médicales Elsevier, 23 rue Linols
75724 Paris cedex 15 France, [URL: <http://www.elsevier.fr>]

DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English
ISSN: 1286-4579
FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Immunology Abstracts

Kortekaas, Jeroen; Mueller, Shirley A; Ringler, Philippe; Gregorini,
Marco; Veynants, Vincent E; Rutten, Lucy; Bos, Martine P;
Tomassen, Jan

ABSTRACT:

The iron-limitation-inducible protein FrpB of *Neisseria meningitidis* is an outer-membrane-localized siderophore receptor. Because of its abundance and its capacity...

... DESCRIPTORS: protein; Immunogenicity; Inclusion bodies; Laboratory animals; Protein folding; Protein structure; Vaccines; siderophore receptors; *Escherichia coli*; *Neisseria meningitidis*

40/3,K/6 (Item 6 from file: 24)
DIALOG File 24: CSA Life Sciences Abstracts
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0002816358 I.P. ACCESSION NO: 6737828
Vaccine potential of the *Neisseria meningitidis* lactoferrin-binding
proteins LbpA and LbpB

Pettersson, Annika; Kortekaas, Jeroen; Veynants, Vincent E; Voet,
Pierre; Poolman, Jan T; Bos, Martine P; Tomassen, Jan
Department of Molecular Microbiology, Institute of Biomechanics, Utrecht
University, Padualaan 8, 3584 CH Utrecht, The Netherlands,
[mailto:m.p.bos@io.uu.nl]

Vaccine, v 24, n 17, p 3545-3557, 2006
PUBLICATION DATE: 2006

PUBLISHER: Butterworth-Heinemann, 313 Washington St. Newton MA 02158 USA

DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English
ISSN: 0264-410X

FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Immunology Abstracts
Vaccine potential of the *Neisseria meningitidis* lactoferrin-binding
proteins LbpA and LbpB

Pettersson, Annika; Kortekaas, Jeroen; Weynants, Vincent E; Voet,
Pierre; Poolman, Jan T; Bos, Martine P; Tommassen, Jan

ABSTRACT:

The vaccine potential of the *Neisseria meningitidis* lactoferrin-binding proteins LbpA and LbpB was evaluated. Sequencing and sequence alignments suggested that...

...DESCRIPTIONS: Outer membranes; Antisera; LbpA protein; Nucleotide sequence; Monoclonal antibodies; Bactericidal activity; Western blotting; LbpB protein; *Neisseria meningitidis*; *Escherichia coli*

40/3, K/7 (Item 7 from file: 24)
DIALCOG(R) File 24: CSA Life Sciences Abstracts
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0002705472 I.P. ACCESSION NO: 6188781
Function of *Neisseria* Outer Membrane Phospholipase A in Autolysis and Assessment of Its Vaccine Potential

Bos, Martine P; Tefsen, Boris; Voet, Pierre; Weynants, Vincent;
Van Putten, Jos PM; Tommassen, Jan
Department of Molecular Microbiology and Institute for Biomembranes,
Department of Infectious Diseases and Immunology, Utrecht University,
Utrecht, The Netherlands

Infection and Immunity, v 73, n 4, p 2222-2231, April 2005
PUBLICATION DATE: 2005

PUBLISHER: American Society for Microbiology, 1752 N Street N.W.
Washington, DC 20036 USA, [URL: <http://www.asm.org/>]

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 0019-9567

FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Immunology Abstracts

Bos, Martine P; Tefsen, Boris; Voet, Pierre; Weynants, Vincent;
Van Putten, Jos PM; Tommassen, Jan

ABSTRACT:

... Here, we investigated the presence, function, and vaccine potential of OMPLA in the human pathogen *Neisseria meningitidis*. Immunoblot analysis showed the presence of OMPLA in 28 out of 33 meningococcal strains ...

... strains all contained a *pldA* gene, but these alleles contained premature stop codons. All six *Neisseria gonorrhoeae* strains tested, but only two out of seven commensal *neisseria* strains investigated, expressed OMPLA ...

... DESCRIPTIONS: Outer membranes; Antibodies; Phospholipase A; Commensal ; phospholipase; Virulence; Phospholipids; Autolysis; Nonsense mutation; *pldA* gene; Autolysis; *Neisseria meningitidis*;

Neisseria gonorrhoeae

40/3, K/8 (Item 1 from file: 399)
 DI ALCO (R) File 399: CA SEARCH (R)
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152343487 CA: 152(15)343487u PATENT
 Outer membrane vesicle (OMV) vaccine comprising protein NMB0964 from
 Neisseria meningitidis
 INVENTOR(AUTHOR): Bos, Martine Petronella; Poolman, Jan; Stork, Michiel;
 Tommassen, Johannes Petrus Maria; Veynants, Vincent
 LOCATION: Belg.
 ASSIGNEE: GlaxoSmithKline Biologicals S.A.; Utrecht University
 PATENT: PCT International; WO 201025964 A1 DATE: 20100311
 APPLICATION: WO 2009EP52689 (20090306) *GB 200816447 (20080908)
 PAGES: 43pp. CODEN: PIXXD2 LANGUAGE: English
 PATENT CLASSIFICATIONS:
 IPC8 + Level Value Position Status Version Action Source Office:
 A61K 0039/095 A I F B 20060101 H EP
 C07K 0014/22 A I L B 20060101 H EP
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR;
 BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES;
 FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;
 KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX;
 MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG;
 SK; SL; SM; ST; SV; SY; TJ; TM; TN; TR DESIGNATED REGIONAL: AT; BE; BG; CH;
 CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV;
 MC; MK; ML; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA;
 GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;
 SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

40/3, K/9 (Item 2 from file: 399)
 DI ALCO (R) File 399: CA SEARCH (R)
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148099084 CA: 148(5)99084q PATENT
 Lipooligosaccharide meningococcal vaccines
 INVENTOR(AUTHOR): Devos, Nathalie; Feron, Christiane; Poolman, Jan;
 Veynants, Vincent
 LOCATION: Belg.
 ASSIGNEE: GlaxoSmithKline Biologicals SA
 PATENT: PCT International; WO 2007144316 A2 DATE: 20071221
 APPLICATION: WO 2007EP55676 (20070608) *US 2006PV804475 (20060612) *US
 2006PV804489 (20060612)
 PAGES: 83pp. CODEN: PIXXD2 LANGUAGE: English
 PATENT CLASSIFICATIONS:
 CLASS: A61K 000/0 A
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BH; BR; BW;
 BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI;
 GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP;
 KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; NZ;
 NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL;
 SM; SV; SY; TJ; TM; TN; TR; TT; TZ; UA DESIGNATED REGIONAL: AT; BE; BG; CH;
 CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;
 ML; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
 ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG;
 ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

40/3, K/10 (Item 3 from file: 399)
 DI ALCO (R) File 399: CA SEARCH (R)

10523114HSFTBP.txt
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146315013 CA: 146(16)315013u PATENT
Serum bactericidal assay for *Neisseria meningitidis*-specific antibodies
INVENTOR(AUTHOR): De Vrieschauer, Isabel; Durant, Nathalie; Poolman, Jan;
Veynants, Vincent
LOCATION: Belg.
ASSIGNEE: GlaxoSmithKline Biologicals S.A.
PATENT: PCT International; WO 200728408 A1 DATE: 20070315
APPLICATION: WO 2005EP9566 (20050905)
PAGES: 52pp. CODEN: PIXXD2 LANGUAGE: English
PATENT CLASSIFICATIONS:
IPC/8 + Level Value Position Status Version Action Source Office:
G01N 0033/569 A I F B 20060101 H EP
G12N 0001/22 A I L B 20060101 H EP
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;
BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;
GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KP; KR; KZ; LC; LK; LR;
LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; ME; NA; NG; NI; NO; NZ; OM; PG;
PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR; TT; TZ;
UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW DESIGNATED REGIONAL: AT; BE; BG; CH;
CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;
NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; OM; GA; GN; GQ; GW; ML;
MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;
ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

40/3, K/11 (Item 4 from file: 399)
DIALOGR File 399: CA SEARCH(R)
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146161138 CA: 146(9)161138z JOURNAL
Immunogenicity and safety of three doses of a bivalent (B:4;P1.19,15 and
B:4;P1.7-2,4) meningococcal outer membrane vesicle vaccine in healthy
adolescents
AUTHOR(S): Boutreau, Dominique; Poolman, Jan; Borrow, Ray; Findlow, Jamie;
Domingo, Javier Diez; Puig-Barbera, Joan; Baldo, Jose Maria; Panlles,
Victoria; Jubert, Angel; Colomer, Julia; Gil, Angel; Leve, Karin; Kervyn,
Anne-Diane; Veynants, Vincent; Dominguez, Francisco; Barbera, Farron;
Sotolongo, Franklin
LOCATION: GlaxoSmithKline Biologicals, Rixensart, Belg.
JOURNAL: Clin. Vaccine Immunol. (Clinical and Vaccine Immunology) DATE:
2007 VOLUME: 14 NUMBER: 1 PAGES: 65-73 CODEN: CVIL61 ISSN: 1556-6811
LANGUAGE: English PUBLISHER: American Society for Microbiology

40/3, K/12 (Item 5 from file: 399)
DIALOGR File 399: CA SEARCH(R)
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140259048 CA: 140(16)259048w PATENT
Neisseria outer membrane FrpB proteins containing loop-deletions for
improved refolding and vaccine use
INVENTOR(AUTHOR): Biemans, Ralph; Denoel, Philippe; Feron, Christiane;
Goraj, Karine; Kortekaas, Jeroen; Poolman, Jan; Tomassen, Jan; Veynants,
Vincent
LOCATION: Belg.
ASSIGNEE: GlaxoSmithKline Biologicals S.A.; Utrecht University;
Technology Foundation (Stichting Voor de Technische Wetenschappen)
PATENT: PCT International; WO 200420463 A2 DATE: 20040311
APPLICATION: WO 2003EP9634 (20030828) *GB 200220199 (20020830)
PAGES: 104 pp. CODEN: PIXXD2 LANGUAGE: English
PATENT CLASSIFICATIONS:

CLASS: C07K-014/00A

DESI GNATED COUNTRY ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
 CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
 GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
 LV; MA; MD; MG; MK; MN; MW; MX; NZ; NI; NO; OM; PG; PH; PL; PT; RO; RU;
 SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;
 YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; DESI GNATED REGIONAL: GH; GM; KE
 ; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK;
 EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MD; NL; PT; RO; SE; SI; SK; TR; BF;
 BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

40/3, K/13 (Item 6 from file: 399)

DI ALCO R) File 399: CA SEARCH(R)

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140249770 CA: 140(16)249770m PATENT

Refolding of recombinantly produced NspA protein from Neisseria using the detergent SB-12 in an alkaline refolding buffer and use of NspA in the treatment, prevention and diagnosis of Neisserial infections

INVENTOR(AUTHOR): Biernans, Ralph; Bos, Martine; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Tomassen, Jan; Weynants, Vincent
 LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S. A.; Utrecht University

PATENT: PCT International ; WO 200420452 A2 DATE: 20040311

APPLICATI ON: WO 2003EP10085 (20030828) *GB 200220197 (20020830)

PAGES: 62 pp. CODEN: P1XXD2 LANGUAGE: English

PATENT CLASSIFI CATIONS:

CLASS: C07K-000/A

DESI GNATED COUNTRY ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
 CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
 GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
 LV; MA; MD; MG; MK; MN; MW; MX; NZ; NI; NO; OM; PG; PH; PL; PT; RO; RU;
 SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;
 YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; DESI GNATED REGIONAL: GH; GM; KE
 ; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK;
 EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MD; NL; PT; RO; SE; SI; SK; TR; BF;
 BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

40/3, K/14 (Item 7 from file: 399)

DI ALCO R) File 399: CA SEARCH(R)

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140198071 CA: 140(13)198071z PATENT

Meningococcal genetically engineered vaccine composition which has a fixed or locked lipooligosaccharide (LOS) immunotype

INVENTOR(AUTHOR): Biernans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Jennings, Michael Paul; Poolman, Jan; Weynants, Vincent
 LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals Sa; The University of Queensland

PATENT: PCT International ; WO 200415099 A2 DATE: 20040219

APPLICATI ON: WO 2003EP8569 (20030731) *GB 200218037 (20020802) *GB

200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB

200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB

200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB

200230170 (20021224) *GB 20035028 (20030305)

PAGES: 42 pp. CODEN: P1XXD2 LANGUAGE: English

PATENT CLASSIFI CATIONS:

CLASS: C12N-015/00A

DESI GNATED COUNTRY ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
 CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
 GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;

10523114HSFTBP.txt

LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;
SC; SD; SE; SG; SK; SL; SJ; TJ; TM; TN; TR; TT; TZ; UA; UG; US; LZ; VC; VN;
YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESI GNATED REGI ONAL: GH; GM; KE
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MD; NL; PT; RO; SE; SI; SK; TR; BF;
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

40/3, K/15 (Item 8 from file: 399)

DI ALQ R) File 399: CA SEARCH(R)

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140198065 CA: 140(13)198065a PATENT

Vaccine compositions comprising Neisserial adhesin, autotransporter,
toxin, iron acquisition protein and membrane-associated protein against
Neisserial infection

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph;
Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Weynants,
Vincent

LOCATI ON: Belg.

ASSI GNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200414418 A2 DATE: 20040219

APPLI CATI ON: WO 2003EP8571 (20030731) *GB 200218037 (20020802) *GB
200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB
200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB
200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB
200230170 (20021224) *GB 20035028 (20030305)

PAGES: 113 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSI FI CATI ONS:

CLASS: A61K-039/02A

DESI GNATED COUNTRI ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GR;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LB; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;
SC; SD; SE; SG; SK; SL; SJ; TJ; TM; TN; TR; TT; TZ; UA; UG; US; LZ; VC; VN;
YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESI GNATED REGI ONAL: GH; GM; KE
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MD; NL; PT; RO; SE; SI; SK; TR; BF;
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

40/3, K/16 (Item 9 from file: 399)

DI ALQ R) File 399: CA SEARCH(R)

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140180125 CA: 140(12)180125k PATENT

Vaccine composition comprising transferrin binding protein and Hsf
against Neisseria meningitidis, Neisseria gonorrhoeae, Moraxella
catarrhalis and Haemophilus influenzae

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph;
Denoel, Philippe; Feron, Christiane; Goraj, Carine; Poolman, Jan; Weynants,
Vincent

LOCATI ON: Belg.

ASSI GNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200414419 A1 DATE: 20040219

APPLI CATI ON: WO 2003EP8567 (20030731) *GB 200218037 (20020802) *GB
200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB
200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB
200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB
200230170 (20021224) *GB 20035028 (20030305)

PAGES: 64 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSI FI CATI ONS:

CLASS: A61K-039/095A; A61K-039/102B; A61K-039/00B

10523114HSFTBP.txt
 DESIG NATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
 CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
 GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
 LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;
 SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;
 YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIG NATED REGIONAL: GT; GM; KE
 ; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;
 EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MD; NL; PT; RO; SE; SI; SK; TR; BF;
 BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

40/3, K/17 (Item 10 from file: 399)
 DIALOG R) File 399: CA SEARCH(R)
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140180124 CA: 140(12)180124] PATENT
 Engineered meningococcal strains comprising LOS subunit or outer membrane
 vesicle with downregulated or deleted PorA, QpA and/or QpC for use as
 neisserial vaccines
 INVENTOR(AUTHOR): Biernans, Ralph; Denoel, Philippe; Feron, Christiane;
 Goraj, Karine; Poolman, Jan; Weynants, Vincent
 LOCCATION: Belg.
 ASSIGNEE: Glaxosmithkline Biologicals SA
 PATENT: PCT International ; WO 200414417 A2 DATE: 20040219
 APPLICATI ON: WO 2003EP8568 (20030731) *GB 200218037 (20020802) *GB
 200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB
 200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB
 200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB
 200230170 (20021224) *GB 20035028 (20030305)
 PAGES: 51 pp. CODEN: PIXXD2 LANGUAGE: English
 PATENT CLASSI FICATIONS:
 CLASS: A61K 039/00A
 DESIG NATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
 CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
 GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
 LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;
 SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;
 YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIG NATED REGIONAL: GT; GM; KE
 ; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;
 EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MD; NL; PT; RO; SE; SI; SK; TR; BF;
 BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG
 ? DS

Set	Items	Description
S1	71	E1-E12 AND (MYCOBAC? OR APOLAR OR NONPOLAR)
S2	37	RD (unique items)
S3	236	E1-E12 AND (MYCOBAC? OR NONPOLAR OR APOLAR)
S4	1	S3 AND (APOLAR OR NONPOLAR)
S5	13	E1-E2
S6	7	S5 AND (MYCOB?)
S7	94	E1-E12
S8	72	S7 AND (MYCOBAC?)
S9	46	RD (unique items)
S10	1	S9 AND (APOLAR OR NONPOLAR OR NON-POLAR)
S11	0	(NONPOLAR OR APOLAR OR NON-POLAR) AND (MYCOBAC?) AND (DI ME- THYLDI OCTADECYLAMMONI UM?)
S12	487	(NONPOLAR OR APOLAR OR NON-POLAR) AND (MYCOBAC?)
S13	1	S12 AND DDA
S14	1	S12 AND ESAT6?
S15	40	S12 AND FRACTION
S16	10	RD (unique items)
S17	5	(NONPOLAR OR APOLAR OR NON-POLAR) AND (DI METHYLDI OCTADECYL- AMMONI UM?)

S18 3 RD (unique items)
 S19 217 (DI METHYLDI OCTADECYLAMMONI UMP) AND (MYCOBAC?)
 S20 80 RD (unique items)
 S21 1 S20 AND (FRACTI ON?)
 S22 0 S20 AND (POLAR OR APOLAR OR NONPOLAR OR NON- POLAR OR CHLOR-
 OFORM OR METHANOL)
 S23 2 S20 AND SOLVENT
 S24 201 E1- E12
 S25 6 S24 AND (TRANSFERRI N OR HSF OR NEI SSERI A)
 S26 5 RD (unique items)
 S27 4 E1- E12 AND (HSF OR TRANSFERRI N)
 S28 4 RD (unique items)
 S29 117 E1- E12
 S30 7 S29 AND (HSF OR TRANSFERRI N)
 S31 7 RD (unique items)
 S32 9 E1- E12 AND (HSF OR TRANSFERRI N)
 S33 8 RD (unique items)
 S34 32 E1- E12
 S35 1 S34 AND (HSF OR TRANSFERRI N)
 S36 104 E1- E7 AND (HSF OR TRANSFERRI N OR NEI SSERI A)
 S37 88 RD (unique items)
 S38 69 E1- E5
 S39 37 S38 AND (HSF OR TRANSFERRI N OR NEI SSERI A)
 S40 17 RD (unique items)
 ? E AU=BI EMANS, RALPH

Ref	Items	Index-term
E1	28	AU=BI EMANS, R.
E2	24	*AU=BI EMANS, RALPH
E3	21	AU=BI EMANS, RALPH LEON
E4	2	AU=BI EMANS, ROGIER
E5	2	AU=BI EMANS, T.
E6	1	AU=BI EMANS, TOI NE
E7	1	AU=BI EMANS, TOI NE H.
E8	4	AU=BI EMANS, W
E9	105	AU=BI EMANS, W G
E10	2	AU=BI EMANS, W G
E11	2	AU=BI EMANS, W M
E12	1	AU=BI EMANS, W M G

Enter P or PAGE for more

? S E1- E12

28	AU=BI EMANS, R.
24	AU=BI EMANS, RALPH
21	AU=BI EMANS, RALPH LEON
2	AU=BI EMANS, ROGIER
2	AU=BI EMANS, T.
1	AU=BI EMANS, TOI NE
1	AU=BI EMANS, TOI NE H.
4	AU=BI EMANS, W
105	AU=BI EMANS, W G
2	AU=BI EMANS, W G
2	AU=BI EMANS, W M
1	AU=BI EMANS, W M G

S41

190 E1- E12

? S S41 AND (HSF OR TRANSFERRI N OR NEI SSERI A)

190 S41

11528 HSF

205291 TRANSFERRI N

158727 NEI SSERI A

S42

16 S41 AND (HSF OR TRANSFERRI N OR NEI SSERI A)

? RD

10523114HSFTBP.txt

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S43 15 RD (unique items)

? T S43/3, K/1-15

>>>KWC option is not available in file(s): 399

43/3, K/1 (Item 1 from file: 399)

DI ALOC(R) File 399: CA SEARCH(R)

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151108227 CA: 151(5) 108227e PATENT

Method for preparing protein conjugates

INVENTOR(AUTHOR): Biernans, Ralph Leon; Duvi vier, Pierre

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200977438 A1 DATE: 20090625

APPLICATION: WO 2008EP67378 (20081212) *GB 200724360 (20071214)

PAGES: 87pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K 0047/48 A I F B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR;

BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES;

FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;

KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX;

MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG;

SK; SL; SM; ST; SV; SY; TJ; TM; TN; TR; DESIGNATED REGIONAL: AT; BE; BG; CH;

; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV;

MC; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN;

GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ;

TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

43/3, K/2 (Item 2 from file: 399)

DI ALOC(R) File 399: CA SEARCH(R)

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149150894 CA: 149(7) 150894d PATENT

Process for conjugation of bacterial poly- or oligosaccharides and proteins, polypeptide and polynucleotide sequences of proteins, and their use in vaccines

INVENTOR(AUTHOR): Biernans, Ralph Leon; Duvi vier, Pierre

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200881014 A2 DATE: 20080710

APPLICATION: WO 2008EP50011 (20080102) *GB 2007136 (20070104)

PAGES: 101pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K 0039/00 A I F B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR;

BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES;

FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;

KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX;

MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG;

SK; SL; SM; ST; SV; SY; TJ; TM; TN; TR; TT; DESIGNATED REGIONAL: AT; BE; BG; CH;

; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV;

MC; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN;

GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ;

TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

43/3, K/3 (Item 3 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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149126535 CA: 149(6) 126535s PATENT

Carbodiimide coupling in the preparation of saccharide conjugate vaccines

INVENTOR(AUTHOR): Biemans, Ralph Leon; Duviolier, Pierre

LOCATI ON: Belg.

ASSIGNEE: GlaxoSmithKline Biologicals S. A.

PATENT: PCT International ; WO 200881022 A1 DATE: 20080710

APPLICATI ON: WO 2008EP50021 (20080102) *GB 2007135 (20070104)

PAGES: 65pp. CODEN: P1XXD2 LANGUAGE: English

PATENT CLASSIFI CATI ONS:

IPC8 + Level Value Position Status Version Action Source Office:

A61K-0039/095 A I F B 20060101 H EP

A61K-0039/102 A I L B 20060101 H EP

A61K-0039/116 A I L B 20060101 H EP

A61K-0039/02 A I L B 20060101 H EP

DESI GNATED COUNTRI ES: AE; AG; AL; AM; AQ; AT; AU; AZ; BA; BB; BG; BH; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NL; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SV; SY; TJ; TM; TN; TR; TT DESI GNATED REGI ONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV; MC; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

43/3, K/4 (Item 4 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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146099125 CA: 146(6) 99125n PATENT

Combination vaccine comprising a Haemophilus influenzae type b saccharide

conjugate and addnl. bacterial saccharide conjugates

INVENTOR(AUTHOR): Biemans, Ralph Leon; Boutriau, Dominique; Capi au, Carine; Denoel, Philippe; Duviolier, Pierre; Poolman, Jan

LOCATI ON: Belg.

ASSIGNEE: GlaxoSmithKline Biologicals S. A.

PATENT: PCT International ; WO 200700322 A1 DATE: 20070104

APPLICATI ON: WO 2006EP6210 (20060623) *GB 200513069 (20050627) *GB

200513071 (20050627) *GB 200515556 (20050728) *GB 200524204 (20051128) *GB

200526040 (20051221) *GB 200526041 (20051221)

PAGES: 52pp. CODEN: P1XXD2 LANGUAGE: English

PATENT CLASSIFI CATI ONS:

IPC8 + Level Value Position Status Version Action Source Office:

A61K-0039/095 A I F B 20060101 H EP

A61K-0039/102 A I L B 20060101 H EP

A61K-0039/116 A I L B 20060101 H EP

DESI GNATED COUNTRI ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; ME; MG; MK; MN; MW; MX; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SV; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC DESI GNATED REGI ONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

43/3,K/5 (Item 5 from file: 399)

DI ALCOG R) File 399: CA SEARCH(R)

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146099123 CA: 146(6)99123k PATENT

Immunogeni c composition containing Neisseria meningitidis capsular saccharides

INVENTOR(AUTHOR): Biernans, Ralph Leon; Boutriau, Dominique; Capi au, Carine; Denoel, Philippe; Duvi vier, Pierre; Poolman, Jan

LOCATION: Belg.

ASSIGNEE: Gaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200700341 A2 DATE: 20070104

APPLI CATION: WO 2006EP6268 (20060623) *GB 200513069 (20050627) *GB 200513071 (20050627) *GB 200515556 (20050728) *GB 200524204 (20051128) *GB 200526041 (20051221) *GB 200526040 (20051221)

PAGES: 66pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSI FI CATIONS:

IPC/8 + Level	Value	Position	Status	Version	Action	Source	Office:
A61K-0039/095	A I F B	20060101			H	EP	
A61K-0039/102	A I L B	20060101			H	EP	
A61K-0039/116	A I L B	20060101			H	EP	

DESI GNATED COUNTRI ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MY; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC. DESI GNATED REGI ONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

43/3,K/6 (Item 6 from file: 399)

DI ALCOG R) File 399: CA SEARCH(R)

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146099122 CA: 146(6)99122j PATENT

Neisseria meningitidis capsular polysaccharide vaccine conjugate

INVENTOR(AUTHOR): Biernans, Ralph Leon; Boutriau, Dominique; Capi au, Carine; Denoel, Philippe; Duvi vier, Pierre; Poolman, Jan

LOCATION: Belg.

ASSIGNEE: Gaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200700314 A2 DATE: 20070104

APPLI CATION: WO 2006EP6188 (20060623) *GB 200513071 (20050627) *GB 200513069 (20050627) *GB 200515556 (20050728) *GB 200524204 (20051128) *GB 200526040 (20051221) *GB 200526041 (20051221)

PAGES: 46pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSI FI CATIONS:

IPC/8 + Level	Value	Position	Status	Version	Action	Source	Office:
A61K-0039/095	A I F B	20060101			H	EP	
A61K-0039/102	A I L B	20060101			H	EP	
A61K-0039/116	A I L B	20060101			H	EP	
A61P-0031/04	A I L B	20060101			H	EP	

DESI GNATED COUNTRI ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MY; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC. DESI GNATED REGI ONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GG; GW; ML;
 MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;
 ZW AM AZ; BY; KG; KZ; MD; RU; TJ; TM

43/3, K/7 (Item 7 from file: 399)

DI ALCOG R) File 399: CA SEARCH(R)

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146099120 CA: 146(6)99120g PATENT

Immunogenic composition containing *Neisseria meningitidis* capsular polysaccharides

INVENTOR(AUTHOR): Biernans, Ralph Leon; Boutriau, Dominique; Capi au, Carine; Denoel, Philippe; Duvivier, Pierre; Poolman, Jan

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200700342 A2 DATE: 20070104

APPLICATI ON: WO 2006EP6269 (20060623) *GB 200513069 (20050627) *GB

200513071 (20050627) *GB 200515556 (20050728) *GB 200524204 (20051128) *GB

200526040 (20051221) *GB 200526041 (20051221)

PAGES: 64pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K 0039/095 A I F B 20060101 H EP

A61K 0039/102 A I L B 20060101 H EP

A61K 0039/116 A I L B 20060101 H EP

A61P 0031/04 A I L B 20060101 H EP

DESI GNATED COUNTRIES: AE; AG; AL; AM AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR; TT; UA; UG; US; UZ; VC DESI GNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GG; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW AM AZ; BY; KG; KZ; MD; RU; TJ; TM

43/3, K/8 (Item 8 from file: 399)

DI ALCOG R) File 399: CA SEARCH(R)

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146099119 CA: 146(6)99119p PATENT

Preparation of saccharide-protein conjugates for vaccination

INVENTOR(AUTHOR): Biernans, Ralph Leon; Duvivier, Pierre

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200700343 A2 DATE: 20070104

APPLICATI ON: WO 2006EP6270 (20060623) *GB 200513069 (20050627) *GB

200513071 (20050627) *GB 200515556 (20050728) *GB 200524204 (20051128) *GB

200526040 (20051221) *GB 200526041 (20051221)

PAGES: 37pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K 0039/095 A I F B 20060101 H EP

A61K 0039/102 A I L B 20060101 H EP

A61K 0039/116 A I L B 20060101 H EP

A61P 0031/04 A I L B 20060101 H EP

DESI GNATED COUNTRIES: AE; AG; AL; AM AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI;

10523114HSFTBP.txt

NO: NZ; OM: PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ;
 TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC DESI GNATED REG ONAL: AT; BE; BG; GB;
 ; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;
 NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; OM; GA; GN; GG; GW; ML;
 MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;
 ZW AM AZ; BY; KG; KZ; MD; RU; TJ; TM

43/3, K/9 (Item 9 from file: 399)

DI ALQ R) File 399: CA SEARCH(R)

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146099118 CA: 146(6)99118n PATENT

Combination vaccines comprising Haemophilus influenzae type b saccharide conjugate, an addnl. bacterial saccharide conjugate, and further antigens

INVENTOR(AUTHOR): Biernans, Ralph Leon; Boutriau, Dominique; Capi au,

Carine; Denoel, Philippe; Duvi vier, Pierre; Poolman, Jan

LOCATI ON: Belg.

ASSI GNEE: G axosmithkline Biologicals S. A.

PATENT: PCT International ; WO 200700327 A1 DATE: 20070104

APPLI CATI ON: WO 2006EP6220 (20060623) *GB 200513069 (20050627) *GB

200513071 (20050627) *GB 200515556 (20050728) *GB 200524204 (20051128) *GB

200526041 (20051221) *GB 200526040 (20051221)

PAGES: 49pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSI FI CATI ONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K 0039/095 A I F B 20060101 H EP

A61K 0039/102 A I L B 20060101 H EP

A61K 0039/116 A I L B 20060101 H EP

DESI GNATED COUNTRI ES: AE; AG; AL; AM AT; AU; AZ; BA; BB; BG; BR; BW BY;
 BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;
 GE; GH; GM; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA;
 LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MZ; NA; NG; NI;
 NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ;
 TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC DESI GNATED REG ONAL: AT; BE; BG; GB;
 ; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;
 NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; OM; GA; GN; GG; GW; ML;
 MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;
 ZW AM AZ; BY; KG; KZ; MD; RU; TJ; TM

43/3, K/10 (Item 10 from file: 399)

DI ALQ R) File 399: CA SEARCH(R)

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140259048 CA: 140(16)259048w PATENT

Neisseria outer membrane FrpB proteins containing loop-deletions for improved refolding and vaccine use

INVENTOR(AUTHOR): Biernans, Ralph; Denoel, Philippe; Feron, Christiane;

Goraj, Karline; Kortekaas, Jeroen; Poolman, Jan; Tommassen, Jan; Weynants, Vincent

LOCATI ON: Belg.

ASSI GNEE: G axosmithkline Biologicals S. A.; Utrecht University;

Technology Foundation (Stichting Voor de Technische Wetenschappen)

PATENT: PCT International ; WO 200420463 A2 DATE: 20040311

APPLI CATI ON: WO 2003EP9634 (20030828) *GB 200220199 (20020830)

PAGES: 104 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSI FI CATI ONS:

CLASS: C07K 014/00A

DESI GNATED COUNTRI ES: AE; AG; AL; AM AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
 CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH;
 GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LR; LS; LT; LU;
 LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;

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SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;
YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; DESI GNATED REGIONAL: GH; GM; KE;
; LS; MW; MZ; SD; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK;
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

43/3, K/11 (Item 11 from file: 399)

DI ALCO R) File 399: CA SEARCH R)

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140249770 CA: 140(16)249770m PATENT

Refolding of recombinantly produced NspA protein from *Neisseria* using the detergent SB-12 in an alkaline refolding buffer and use of NspA in the treatment, prevention and diagnosis of *Neisseria* infections

INVENTOR(AUTHOR): Biernans, Ralph; Bos, Martine; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Tormassen, Jan; Weynants, Vincent

LOCATI ON: Belg.

ASSIGNEE: Gaxosmithkline Biologicals S. A.; Utrecht University

PATENT: PCT International ; WO 200420452 A2 DATE: 20040311

APPLI CATION: WO 2003EP10085 (20030828) *GB 200220197 (20020830)

PAGES: 62 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSI FICATIONS:

CLASS: C07K-000/A

DESI GNATED COUNTRY ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;
YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; DESI GNATED REGIONAL: GH; GM; KE;
; LS; MW; MZ; SD; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK;
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

43/3, K/12 (Item 12 from file: 399)

DI ALCO R) File 399: CA SEARCH R)

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140198071 CA: 140(13)198071z PATENT

Meningococcal genetically engineered vaccine composition which has a fixed or locked lipooligosaccharide (LOS) immunotype

INVENTOR(AUTHOR): Biernans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Jenni ngs, Michael Paul; Poolman, Jan; Weynants, Vincent

LOCATI ON: Belg.

ASSIGNEE: Gaxosmithkline Biologicals Sa; The University of Queensland

PATENT: PCT International ; WO 200415099 A2 DATE: 20040219

APPLI CATION: WO 2003EP8569 (20030731) *GB 200218037 (20020802) *GB

200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB

200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB

200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB

200230170 (20021224) *GB 20035028 (20030305)

PAGES: 42 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSI FICATIONS:

CLASS: C12N-015/00A

DESI GNATED COUNTRY ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;
YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; DESI GNATED REGIONAL: GH; GM; KE;
; LS; MW; MZ; SD; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK;
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

43/3, K/13 (Item 13 from file: 399)

DI ALCO (F) File 399: CA SEARCH (F)

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140198065 CA: 140(13)198065a PATENT

Vaccine compositions comprising Neisserial adhesin, autotransporter, toxin, iron acquisition protein and membrane-associated protein against Neisserial infection

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Weynants, Vincent

LOCATIONS: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200414418 A2 DATE: 20040219

APPLICATION: WO 2003EP8571 (20030731) *GB 200218037 (20020802) *GB 200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB 200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB 200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB 200230170 (20021224) *GB 20035028 (20030305)

PAGES: 113 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATION:

CLASS: A61K-039/02A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; NZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MY; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

43/3, K/14 (Item 14 from file: 399)

DI ALCO (F) File 399: CA SEARCH (F)

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140180125 CA: 140(12)180125k PATENT

Vaccine composition comprising transferrin binding protein and Hsf against Neisseria meningitidis, Neisseria gonorrhoeae, Moraxella catarrhalis and Haemophilus influenzae

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Carine; Poolman, Jan; Weynants, Vincent

LOCATIONS: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200414419 A1 DATE: 20040219

APPLICATION: WO 2003EP8567 (20030731) *GB 200218037 (20020802) *GB 200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB 200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB 200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB 200230170 (20021224) *GB 20035028 (20030305)

PAGES: 64 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATION:

CLASS: A61K-039/095A; A61K-039/102B; A61K-039/00B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; NZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;

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YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; DESIGNATED REGIONAL: GH; GM; KE
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK;
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MD; NL; PT; RO; SE; SI; SK; TR; BF;
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

43/3, K/15 (Item 15 from file: 399)

DI ALCO R) File 399: CA SEARCH(R)

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140180124 CA: 140(12)180124] PATENT

Engineered meningococcal strains comprising LOS subunit or outer membrane
vesicle with downregulated or deleted PorA, Cpa and/or Cpc for use as
neisserial vaccines

INVENTOR(AUTHOR): Biernans, Ralph; Denoel, Philippe; Feron, Christiane;
Coraj, Karine; Poolman, Jan; Weynants, Vincent
LOC(ATION): Belg.

ASSIGNEE: Glaxosmithkline Biologicals SA

PATENT: PCT International ; WO 200414417 A2 DATE: 20040219

APPLI(ATION): WO 2003EP8568 (20030731) *GB 200218037 (20020802) *GB

200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB

200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB

200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB

200230170 (20021224) *GB 20035028 (20030305)

PAGES: 51 pp. CODEN: PXXD2 LANGUAGE: English

PATENT CLASSI(IFICATION):

CLASS: A61K-039/00A

DESIGNATED COUNTRY(ES): AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; NZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;
YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; DESIGNATED REGIONAL: GH; GM; KE
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK;
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MD; NL; PT; RO; SE; SI; SK; TR; BF;
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

? S (TRANSFERRI N OR HSF)

205291 TRANSFERRI N

11528 HSF

S44 216790 (TRANSFERRI N OR HSF)

? S S44 AND (NEISSERI A)

216790 S44

158727 NEISSERI A

S45 2683 S44 AND (NEISSERI A)

? S S45 AND (TRANSFERRI N(W BI NDI NG(W PROTEI N)

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Processed 10 of 52 files ...

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2683 S45

205291 TRANSFERRI N

7787775 BI NDI NG

18493386 PROTEI N

1878 TRANSFERRI N(W BI NDI NG(W PROTEI N

S46 871 S45 AND (TRANSFERRI N(W BI NDI NG(W PROTEI N)

? S S46 AND HSF

871 S46

11528 HSF

S47 3 S46 AND HSF

? T S47/3, K/1-3

>>>KW C option is not available in file(s): 399

47/3, K/1 (Item 1 from file: 399)

DI ALCOG R) File 399: CA SEARCH R)

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140180125 CA: 140(12)180125k PATENT

Vaccine composition comprising transferrin binding protein and Hsf
agalnst Neisseria meningitidis, Neisseria gonorrhoeae, Moraxella
catarrhalis and Haemophilus influenzae
INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph;
Denoeel, Philippe; Feron, Christiane; Goraj, Carine; Poolman, Jan; Weynants,
Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200414419 A1 DATE: 20040219

APPLICATI ON: WO 2003EP8567 (20030731) *GB 200218037 (20020802) *GB

200218036 (20020802) *GB 200218035 (20020802) *GB 200218051 (20020802) *GB

200220197 (20020830) *GB 200220199 (20020830) *GB 200225524 (20021101) *GB

200225531 (20021101) *GB 200230164 (20021224) *GB 200230168 (20021224) *GB

200230170 (20021224) *GB 20035028 (20030305)

PAGES: 64 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATION:

CLASS: A61K-039/095A; A61K-039/102B; A61K-039/00B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; UA; UG; US; UZ; VC; VN;
YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

47/3, K/2 (Item 1 from file: 357)

DI ALCOG R) File 357: Derwent Biotech Res.

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0337155 DBR Accession No.: 2004-09447 PATENT

New immunogenic composition comprising transferrin binding
protein and Hsf like protein, useful for treating or
preventing disease caused by Neisseria meningitidis or N.
gonorrhoeae, Moraxella catarrhalis or Haemophilus influenzae -
immunogenic composition for use in bacterium infection therapy and
vaccine

AUTHOR: BERTHET F J; BIEMANS R; DENOEL P; FERON C; GORAJ C; POOLMAN J;
WEYNANTS V

PATENT ASSIGNEE: GLAXOSMITHKLINE BIOLOGICALS SA 2004

PATENT NUMBER: WO 200414419 PATENT DATE: 20040219 WPI ACCESSION NO.:

2004-169460 (200416)

PRIORITY APPLIC. NO.: GB 20035028 APPLIC. DATE: 20030305

NATIONAL APPLIC. NO.: WO 2003EP8567 APPLIC. DATE: 20030731

LANGUAGE: English

New immunogenic composition comprising transferrin binding
protein and Hsf like protein, useful for treating or
preventing disease caused by Neisseria meningitidis or N.
gonorrhoeae, Moraxella catarrhalis or Haemophilus influenzae -
immunogenic composition for use in bacterium...

ABSTRACT: DERWENT ABSTRACT: NOVELTY - A new immunogenic composition
comprises an isolated transferrin binding protein
(Tbp) or its antigenic fragment and an isolated Hsf like protein

or its antigenic from the same or different Gram negative bacteria.
 DETAILED DESCRIPTION...

- ... or preventing Neisserial infection; and (7) a pharmaceutical preparation comprising monoclonal antibodies against TbpA and Hsf of Neisseria meningitidis and an excipient. BIOTECHNOLOGY - Preferred Composition: The immunogenic composition comprises high molecular weight form...
- ... TbpA and low molecular weight form TbpA. It comprises antigenic fragments of Tbp and/or Hsf like protein capable of generating a protective response against Neisseria meningitidis serogroup B, Neisseria gonorrhoeae, Moraxella catarrhalis or Haemophilus influenzae infection. It comprises antigenic fragments of TbpA and/or Hsf. It comprises a fusion protein of Tbp and Hsf like protein or TbpA and Hsf capable of generating a protective response against Neisserial infection. The Hsf like protein or transferrin binding protein is derived from Neisseria meningitidis serogroup B, Neisseria gonorrhoeae, Moraxella catarrhalis or Haemophilus influenzae. The transferrin binding protein is TbpA. The immunogenic composition comprises an outer membrane vesicle preparation derived from Gram negative bacteria, in which expression of both transferrin binding protein and Hsf like protein are at least 1.5 fold higher than naturally occurring in the unmodified Gram negative bacteria. The expression of transferrin binding protein is upregulated by growth under iron limitation conditions. At least a part of the outer membrane vesicle preparation is derived from Neisseria meningitidis serogroup B, Neisseria gonorrhoeae, Moraxella catarrhalis or Haemophilus influenzae. The transferrin binding protein and Hsf like protein are upregulated on different vesicles originating from different bacterial strains or on the...
- ... been genetically engineered so as to introduce a stronger promoter sequence upstream of genes encoding transferrin binding protein and Hsf like protein. A host cell from which the outer membrane vesicle preparation is derived has...
- ... polysaccharide or oligosaccharide. It comprises two or more bacterial capsular polysaccharides or oligosaccharides conjugated to transferrin binding protein or Hsf like proteins or both. The capsular polysaccharide or oligosaccharide is derived from Neisseria meningitidis serogroup B, Neisseria gonorrhoeae, Moraxella catarrhalis or Haemophilus influenzae. The immunogenic composition also comprises one or more polynucleotides encoding a transferrin binding protein and a Hsf like protein whose expression is driven by a eukaryotic promoter. It further comprises an adjuvant containing CpG. It also comprises aluminium salts or 3D-MPL. The TbpA and Hsf of Neisseria meningitidis are encoded. Preferred Method: Treating or preventing Gram-negative bacterial disease comprises administering the...
- ... Neisserial infection is prevented or treated. Making the immunogenic composition comprises: (1) mixing together isolated transferrin binding protein and isolated Hsf like protein; (2) isolating outer membrane vesicles from a Gram negative bacterial culture, which involves...
- ... preferably 0.1% detergent, preferably DCC; and (3) conjugating bacterial capsular polysaccharides or oligosaccharides to transferrin binding protein and/or Hsf like protein. Making the

10523114HSFTBP.txt

vaccine comprises combining the immunogenic composition with an excipient. Preparing an...

... ACTION - Vaccine. USE - The immunogenic composition is useful for treating or preventing infection caused by *Neisseria meningitidis* serogroup B, *Neisseria gonorrhoeae*, *Moraxella catarrhalis* or *Haemophilus influenzae* (claimed). ADMINISTRATION - The composition is administered via oral or...

DESCRIPTIONS: immunogenic composition, transferrin binding protein isol., Hsf-like protein, fusion protein, genetically engineered bacterium outer membrane vesicle, monoclonal antibody, appl. *Neisseria meningitidis*, *Neisseria gonorrhoeae*, *Moraxella catarrhalis*, *Haemophilus influenzae* infection therapy, recombinant vaccine protein bacterium (23, 19)

47/3, K/3 (Item 1 from file: 457)

DI ALCO (R) File 457: The Lancet

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USE FORMAT 7 OR 9 FOR FULL TEXT

Serogroup B meningococcal vaccines-an unfinished story

Sadarangani, Manish; Pollard, Andrew J

The Lancet Infectious Diseases vol. 10, 2 PP: 112-24 Feb 2010

DOCUMENT TYPE: PERIODICAL; General Information; Journal Article

LANGUAGE: English RECORD TYPE: New; Fulltext

LENGTH: 13 Pages

WORD COUNT: 10053

ABSTRACT:

Most invasive meningococcal disease in developed countries is caused by *Neisseria meningitidis* with a serogroup B capsule. However, despite availability of vaccines for other serogroups since...

TEXT:

Most invasive meningococcal disease in developed countries is caused by *Neisseria meningitidis* with a serogroup B capsule. However, despite availability of vaccines for other serogroups since...

...few years.

Introduction

The first description of a disease with the characteristics of infection with *Neisseria meningitidis* was made by Gaspard Vieusseux in Geneva, Switzerland, during a meningitis epidemic in 1805... vesicle vaccines. Outer membrane vesicles without PorA and with overexpression of the conserved proteins TbpA, Hsf, NspA, or Omp85 only induced a serum bactericidal antibody response in mice when combined. 79... antibodies in human beings after promising mouse studies and is not being pursued. 47, 108 Transferrin-binding proteins elicited serum bactericidal antibody in mice and rabbits, 109, 110 and there have...

...to establish whether mucosal IgA has a role in protection against colonisation with virulent meningococci. *Neisseria lactamica* is a commensal carried in the nasopharynx of young children and has been implicated...

SI DEBAR:

For more on PorA variants see <http://www.neisseria.org>

Panel: Timeline showing the development of serogroup B meningococcal vaccines

1972

B polysaccharide not...

...and the reports of health agencies of relevant countries. Search terms

were "menb", "vaccination", "immunisation", "neisseria",
"meningitidis", "meningococcal", "serogroup b", "GNA 1870", "GNA1870",
"LP2086", "factor H binding protein", "fHbp", "GNA2132", "NadA...

CAPTIONS:

CITED REFERENCES:

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THIS IS THE FULL-TEXT.

? S (((AUTOTRANS? OR I RON) AND HSF) OR ((AUTOTRANS? OR I RON) AND TRANSFERRI N))
Processing

Processed 30 of 52 files...

Completed processing all files

59156 AUTOTRANS?

3638860 I RON

11528 HSF

59156 AUTOTRANS?

3638860 I RON

205291 TRANSFERRI N

S48 82684 (((AUTOTRANS? OR I RON) AND HSF) OR ((AUTOTRANS? OR I RON) AND TRANSFERRI N))

? S S48 AND NEI SSERI A

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S49 1996 S48 AND NEI SSERI A

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82684 S48

20687 HSF?

205291 TRANSFERRI N

S50 19 S48 AND (HSF? AND TRANSFERRI N)

? RD

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S51 6 RD (unique items)

? T S51/3, K/1-6

>>>KWC option is not available in file(s): 399

51/3, K/1 (Item 1 from file: 5)

DI ALCOG R) File 5: Biosis Previews(R)

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19021320 BIOSIS NO.: 200600366715

Analysis of hemochromatosis gene mutations in the Sicilian population:

Implications for survival and longevity

AUTHOR: Balistreri C R; Candore G (Reprint); Almasio P; Di Marco V;

Colonna-Romano G; Craxi A; Motta M; Piazza G; Malaguarnera M; Lio D;

Caruso C

AUTHOR ADDRESS: Dept Biopathol and Biomed Methodol, Immunosenescence Study

Unit, Corso Tukory 211, I-90134 Palermo, Italy**Italy

AUTHOR E-MAIL ADDRESS: gcandore@unipa.it

JOURNAL: Archives of Gerontology and Geriatrics (Suppl. 8): p35-42 2002

2002

ISSN: 0167-4943

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

...ABSTRACT: cleft. This protein, instead, has acquired the ability to form complex with the receptor for iron-binding transferrin, so by regulating iron uptake. The C282Y mutation in the HFE gene, known to increase iron uptake, has been identified as the main genetic basis of hereditary hemochromatosis (HH). Two more...

...in patients affected by chronic liver diseases (CLD, n = 92) or by high serum ferritin (HSF) values (n = 24) from Sicily. Samples were typed for C282Y, H63D and S65C alleles using...

...mutation. One was compound heterozygous C282Y/H63D; none was heterozygous for the S65C mutation. Among HSF patients, two were homozygous and two were heterozygous for the C282Y mutation, two were homozygous...

...REGISTRY NUMBERS: iron

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: iron; ...

...transferrin receptor

51/3, K/2 (Item 2 from file: 5)

DI ALCOG R) File 5: Biosis Previews(R)

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16322819 BIOSIS NO.: 200100494658

Genetic analysis of virulence factors of Mannheimia (Pasteurella)

haemolytica A1

AUTHOR: Lo Reggie Y C (Reprint)

AUTHOR ADDRESS: Department of Microbiology, University of Guelph, Guelph,

ON, N1G 2W1, Canada**Canada

JOURNAL: Veterinary Microbiology 83 (1): p23-35 22 October, 2001 2001

MEDIUM: print

ISSN: 0378-1135

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

...ABSTRACT: antigens of *M. haemolytica* A1 have been identified. The first one is a TonB-dependent iron regulated outer-membrane receptor that is distinct from the transferrin binding proteins. The 84 kDa Irp protein exhibits features including a TonB box and a...

...protein as expected, demonstrating that they are functional genes. In addition to being regulated by iron and Fur, irpM undergoes phase variation by a slipped-strand mispairing mechanism and may represent a contingency locus for iron acquisition during an infection. Another locus that codes for a putative adhesin molecule has also...

...weight adhesin proteins of non-piliated non-typable strains of *Haemophilus influenzae* (NTH) including Hia, Hsf, HMM, HMW. Currently, we have cloned the DNA that codes for 2223 amino acids (225...

...complete, the protein could be close to 240 kDa, similar to the molecular mass of Hsf. Though incomplete, analysis of the adhesin showed that it exhibits characteristics of autotransporter (AT) proteins. The role of this high-molecular-weight adhesin in infection is being investigated.

DESCR PTORS:

CHEM CALS & BIOCHEM CALS: ... TonB-dependent iron regulated outer-membrane receptor...

...transferrin binding proteins

51/3, K/3 (Item 1 from file: 34)

DI ALCO (R) File 34: Sci Search (R) Cited Ref Sci

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16535859 Genuine Article#: 172ER No. References: 15

Title: Ionization rate and absolute intensity of peptides enhanced with matrix-assisted laser desorption/ionization in the presence of proteins
Author: Zhuo HQ, Huang HQ (REPRINT); Weng LN; Huang HY

Corporate Source: Xi'an Univ, Key Lab MOD Cell Biol & Tumor Cell Engn, Sch Life Sci, Xi'an 71005//Peoples R China/ (REPRINT); Xi'an Univ, Key Lab MOD Cell Biol & Tumor Cell Engn, Sch Life Sci, Xi'an 71005//Peoples R China/; Xi'an Univ, Key Lab Chem Biol Fujian Prov, Coll Chem & Chem Engn, Xi'an 71005//Peoples R China/

Journal: CHEMICAL JOURNAL OF CHINESE UNIVERSITIES-CHINESE, 2007, V28, N5 (MAY), P889-893

ISSN: 0251-0790 Publication Date: 20070500

Publisher: HIGHER EDUCATION PRESS, SHATANHOU ST 55, BEIJING 100009, PEOPLES R CHINA

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Abstract: Human serum transferrin (HTF), bovine serum albumin (BSA), and horse spleen ferritin (HSF) have capacities of assisting the matrix to enhance ionization rate and absolute intensity both in insulin...

...and structures. The fragment numbers of HTF lysed with endopeptidase and matching rate with reference transferrin were greatly improved, in the presence of SZLF, - apoSZLF and HSF, when HTF was identified by a combined techniques, lysis enzyme I and peptide mass fingerprinting...

...Identifiers: FLIGHT MASS-SPECTROMETRY; MALDI-TQF-MS; IRON RELEASE;

51/3, K/4 (Item 2 from file: 34)
DIALOG(R) File 34: Sci Search(R) Cited Ref Sci
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04839326 Genuine Article#: UL650 No. References: 403
Title: THE STRESS GENE RESPONSE IN BRAIN
Author: MASSA SM; SWANSON RA; SHARP FR
Corporate Source: VET AFFAIRS MED CTR, DEPT NEUROL 127, 4150 CLEMENT ST/ SAN
FRANCISCO / CA 94121; UNIV CALIF SAN FRANCISCO, DEPT NEUROL/ SAN
FRANCISCO / CA 94143
Journal: CEREBROVASCULAR AND BRAIN METABOLISM REVIEWS, 1996, V8, N2 (SUM
P95-158
ISSN: 1040-8827
Language: ENGLISH Document Type: REVIEW (Abstract Available)

... Research Fronts: BRAIN INJURY; RAT FOCAL ISCHEMIA; GLUTAMATE
NEUROTOXICITY

94-0806 001 (HEAT-SHOCK TRANSCRIPTION FACTOR; CONSTITUTIVE HSF2
DNA-BINDING ACTIVITY IN MOUSE EMBRYONAL CARCINOMA CELLS; CYTOSOLIC
HSP70 GENE FAMILY)
94-1531 001...

... INHIBITS P34(CDC2) KINASE; MOUSE COCYTES; UBIQUITIN-MEDIATED PROTEOLYTIC
PATHWAY; CDC2 ACTIVITY

94-7136 001 (IRON-RESPONSIVE ELEMENT-BINDING PROTEIN;
POSTTRANSCRIPTIONAL REGULATION; 3' UNTRANSLATED REGION;
TRANSFERRIN RECEPTOR GENE-EXPRESSION)

51/3, K/5 (Item 1 from file: 357)
DIALOG(R) File 357: Derwent Biotech Res.
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0337155 DBR Accession No.: 2004-09447 PATENT
New immunogenic composition comprising transferrin binding protein
and Hsf like protein, useful for treating or preventing disease
caused by Neisseria meningitidis or N. gonorrhoeae, Moraxella
catarrhalis or Hemophilus influenzae - immunogenic composition for use
in bacterium infection therapy and vaccine
AUTHOR: BERTHELF J; BIEMANS R; DENCEL P; FERON C; GORAJ C; POOLMAN J;
VEYNANTS V
PATENT ASSIGNEE: GLAXOSMITHKLINE BIOLOGICALS SA 2004
PATENT NUMBER: WO 200414419 PATENT DATE: 20040219 WPI ACCESSION NO.:
2004-169460 (200416)
PRIORITY APPLICATION NO.: GB 20035028 APPLICATION DATE: 20030305
NATIONAL APPLICATION NO.: WO 2003EP8567 APPLICATION DATE: 20030731
LANGUAGE: English

New immunogenic composition comprising transferrin binding protein
and Hsf like protein, useful for treating or preventing disease
caused by Neisseria meningitidis or N. gonorrhoeae...

ABSTRACT: DERWENT ABSTRACT: NOVELTY - A new immunogenic composition
comprises an isolated transferrin binding protein (Tbp) or its
antigenic fragment and an isolated Hsf like protein or its
antigenic fragment from the same or different Gram negative bacteria. DETAILED
DESCRIPTION...

... or preventing Neisseria infection; and (7) a pharmaceutical preparation
comprising monoclonal antibodies against TbpA and Hsf of
Neisseria meningitidis and an excipient. BIOTECHNOLOGY - Preferred
Page 78

Composition: The immunogenic composition comprises high molecular...

- ... TbpA and low molecular weight form TbpA. It comprises antigenic fragments of Tbp and/or Hsf like protein capable of generating a protective response against *Neisseria meningitidis* serogroup B, *Neisseria gonorrhoeae*, *Moraxella catarrhalis* or *Haemophilus influenzae* infection. It comprises antigenic fragments of TbpA and/or Hsf. It comprises a fusion protein of Tbp and Hsf like protein or TbpA and Hsf capable of generating a protective response against *Neisseria* infection. The Hsf like protein or transferrin binding protein is derived from *Neisseria meningitidis* serogroup B, *Neisseria gonorrhoeae*, *Moraxella catarrhalis* or *Haemophilus influenzae*. The transferrin binding protein is TbpA. The immunogenic composition comprises an outer membrane vesicle preparation derived from Gram negative bacteria, in which expression of both transferrin binding protein and Hsf like protein are at least 1.5 fold higher than naturally occurring in the unmodified Gram negative bacteria. The expression of transferrin binding protein is upregulated by growth under iron limitation conditions. At least a part of the outer membrane vesicle preparation is derived from *Neisseria meningitidis* serogroup B, *Neisseria gonorrhoeae*, *Moraxella catarrhalis* or *Haemophilus influenzae*. The transferrin binding protein and Hsf like protein are upregulated on different vesicles originating from different bacterial strains or on the...
- ... been genetically engineered so as to introduce a stronger promoter sequence upstream of genes encoding transferrin binding protein and Hsf like protein. A host cell from which the outer membrane vesicle preparation is derived has...
- ... polysaccharide or oligosaccharide. It comprises two or more bacterial capsular polysaccharides or oligosaccharides conjugated to transferrin binding protein or Hsf like proteins or both. The capsular polysaccharide or oligosaccharide is derived from *Neisseria meningitidis* serogroup...
- ... catarrhalis or *Haemophilus influenzae*. The immunogenic composition also comprises one or more polynucleotides encoding a transferrin binding protein and a Hsf like protein whose expression is driven by a eukaryotic promoter. It further comprises an adjuvant containing CpG. It also comprises aluminium salts or 3D-MPL. The TbpA and Hsf of *Neisseria meningitidis* are encoded. Preferred Method: Treating or preventing Gram-negative bacterial disease comprises...
- ... *Neisseria* infection is prevented or treated. Making the immunogenic composition comprises: (1) mixing together isolated transferrin binding protein and isolated Hsf like protein; (2) isolating outer membrane vesicles from a Gram negative bacterial culture, which involves...
- ... preferably 0.1% detergent, preferably DCC, and (3) conjugating bacterial capsular polysaccharides or oligosaccharides to transferrin binding protein and/or Hsf like protein. Making the vaccine comprises combining the immunogenic composition with an excipient. Preparing an...
- DESCRIPTION: immunogenic composition, transferrin binding protein isol., Hsf-like protein, fusion protein, genetically engineered bacterium outer membrane vesicle, monoclonal antibody, appl. *Neisseria meningitidis*...

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USE FORMAT 7 OR 9 FOR FULL TEXT

Serogroup B meningococcal vaccines-an unfinished story
 Sadarangani, Manish; Pollard, Andrew J
 The Lancet Infectious Diseases vol. 10, 2 PP: 112-24 Feb 2010
 DOCUMENT TYPE: PERIODICAL; General Information; Journal Article
 LANGUAGE: English RECORD TYPE: New; Fulltext
 LENGTH: 13 Pages
 WORD COUNT: 10053

TEXT:

...vesicle vaccines. Outer membrane vesicles without PorA and with overexpression of the conserved proteins TbpA, Hsf, NspA, or Omp85 only induced a serum bactericidal antibody response in mice when combined. 79...antibodies in human beings after promising mouse studies and is not being pursued. 47, 108 Transferrin-binding proteins elicited serum bactericidal antibody in mice and rabbits, 109, 110 and there have...

...addition to those involving fHbp (table 2). 77, 79-81, 102, 109, 110, 112-124 Iron-regulated proteins (eg, FetA, LbpA, and LbpB) are upregulated in conditions where the concentration of iron is low, so the amount present in outer membrane vesicle vaccines is dependent on growth...

S DEBAR:

CITED REFERENCES:

...27-31.
 109 Rokbi B, Mgnon M, Maitre-Wilmotte G, et al. Evaluation of recombinant transferrin-binding protein B variants from *Neisseria meningitidis* for their ability to induce cross-reactive and...

...strains. Infect Immun 1997; 65: 55-63.
 110 Alai Aldeen DA, Borriello SP. The meningococcal transferrin-binding proteins 1 and 2 are both surface exposed and generate bactericidal antibodies capable of...

...Lissolo L, Guinet F, et al. Safety and immunogenicity of a *Neisseria meningitidis* group B transferrin binding protein vaccine in adults. 11th International Pathogenic *Neisseria* Conference; Nice, France; Nov 1-6

THIS IS THE FULL-TEXT.

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? DS

S24	201	E1-E12
S25	6	S24 AND (TRANSFERRIN OR HSF OR NEISSERIA)
S26	5	RD (unique items)
S27	4	E1-E12 AND (HSF OR TRANSFERRIN)
S28	4	RD (unique items)
S29	117	E1-E12
S30	7	S29 AND (HSF OR TRANSFERRIN)
S31	7	RD (unique items)
S32	9	E1-E12 AND (HSF OR TRANSFERRIN)
S33	8	RD (unique items)
S34	32	E1-E12
S35	1	S34 AND (HSF OR TRANSFERRIN)
S36	104	E1-E7 AND (HSF OR TRANSFERRIN OR NEISSERIA)
S37	88	RD (unique items)
S38	69	E1-E5
S39	37	S38 AND (HSF OR TRANSFERRIN OR NEISSERIA)
S40	17	RD (unique items)
S41	190	E1-E12
S42	16	S41 AND (HSF OR TRANSFERRIN OR NEISSERIA)


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S43      15  RD (unique items)
S44      216790 (TRANSFERRIN OR HSF)
S45      2683  S44 AND (NEISSERIA)
S46      871  S45 AND (TRANSFERRIN WY BINDING WY PROTEIN)
S47      3    S46 AND HSF
S48      82684 (((AUTOTRANSF? OR IRON) AND HSF) OR ((AUTOTRANSF? OR IRON) -
              AND TRANSFERRIN))
S49      1996  S48 AND NEISSERIA
S50      19    S48 AND (HSF? AND TRANSFERRIN)
S51      6     RD (unique items)

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